MACHINE TYPE 1411 SERIAL # 00000 04-08-63

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16.11.02.1	A CHANNEL INPUT TRANSLATOR FOR AD	0761690	249906		
16.11.03.1	A CHANNEL INPUT TRANSLATOR FOR AD	0761691	249906		
16.11.04.1	A CHANNEL INPUT TRANSLATOR FOR AD	0761692	249906		
16.11.05.1	A CHANNEL INPUT TRANSLATOR FOR AD	0761693	249906		
16.11.06.1	A CHANNEL INPUT TRANSLATOR FOR AD	0761694	249906		
16.12.01.1	B CHANNEL INPUT TRANSLATOR FOR AD	0761695	249906		
16.12.02.1	B CHANNEL INPUT TRANSLATOR FOR AD	0761696	249906		
16.12.03.1	B CHANNEL INPUT TRANSLATOR FOR AD	0761697	249906		
16.12.04.1	B CHANNEL INPUT TRANSLATOR FOR AD	0761698	249906		
16.12.05.1	B CHANNEL INPUT TRANSLATOR FOR AD	0761699	249906		
16.12.06.1	B CHANNEL INPUT TRANSLATOR FOR AD	0761700	249906		
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16.13.02.1	ADDER MATRIX Q0	0761702	249906		
16.13.03.1	ADDER MATRIX Q2	0761703	249906		
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16.13.05.1	ADDER MATRIX Q6	0761705	249906		
16.13.06.1	ADDR MATRIX Q8	0761706	249906		
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16.14.02.1	ADDER OUTPUT TRANSLATOR	0761709	250761		
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16.14.06.1	ADDER OUTPUT TRANSLATOR	0761713	250761		
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16.14.09.1	ADDER OUTPUT TRANS 8 AND NOT 8 BI	0761716	249906		
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16.16.06.1	SIGN CONTROL	0761722	249906		
16.16.07.1	SIGN CONTROL	0761723	249906		
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16.17.02.1	ADDER ZONES GROUPING B BITS	0761848	249906		
16.17.03.1	ADDER ZONES GROUPING C BITS	0761849	249906		
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16.20.15.1	TRUE AND COMP LATCHES	0761734	249906		
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16.45.02.1	ARITH OVERFLOW LATCH	0761754	250761		
16.50.01.1	MPLY CONTROLS	0761755	250785		
16.50.02.1	MPLY CONTROLS	0761756	249906		
16.50.03.1	MPLY CONTROLS	0761757	251837		
16.50.04.1	MPLY CONTROLS	0761758	249906		
16.50.05.1	MPLY CONTROLS	0761759	250785		
16.60.01.1	DIV CONTROLS	0761760	250785		
16.60.02.1	DIV CONTROLS	0761761	249906		
16.61.01.1	MPLY DIGIT RECOGNITION	0761762	249906		
16.62.01.1	MPLY DIV LAST LATCH	0761763	250785		
17.11.01.1	EDIT TRANSLATOR	0762017	249906		
17.11.02.1	EDIT TRANSLATOR	0762018	249906		
17.11.03.1	EDIT TRANSLATOR	0762019	249906		
17.11.04.1	EDIT TRANSLATOR	0762020	249906		
17.11.05.1	EDIT TRANSLATOR	0762021	251766		
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17.12.01.1	EDIT LATCHES	0762024	249906		
17.12.02.1	EDIT LATCHES	0762025	249906		
17.12.03.1	EDIT LATCHES	0762026	249906		
17.12.04.1	EDIT LATCHES	0762027	249906		
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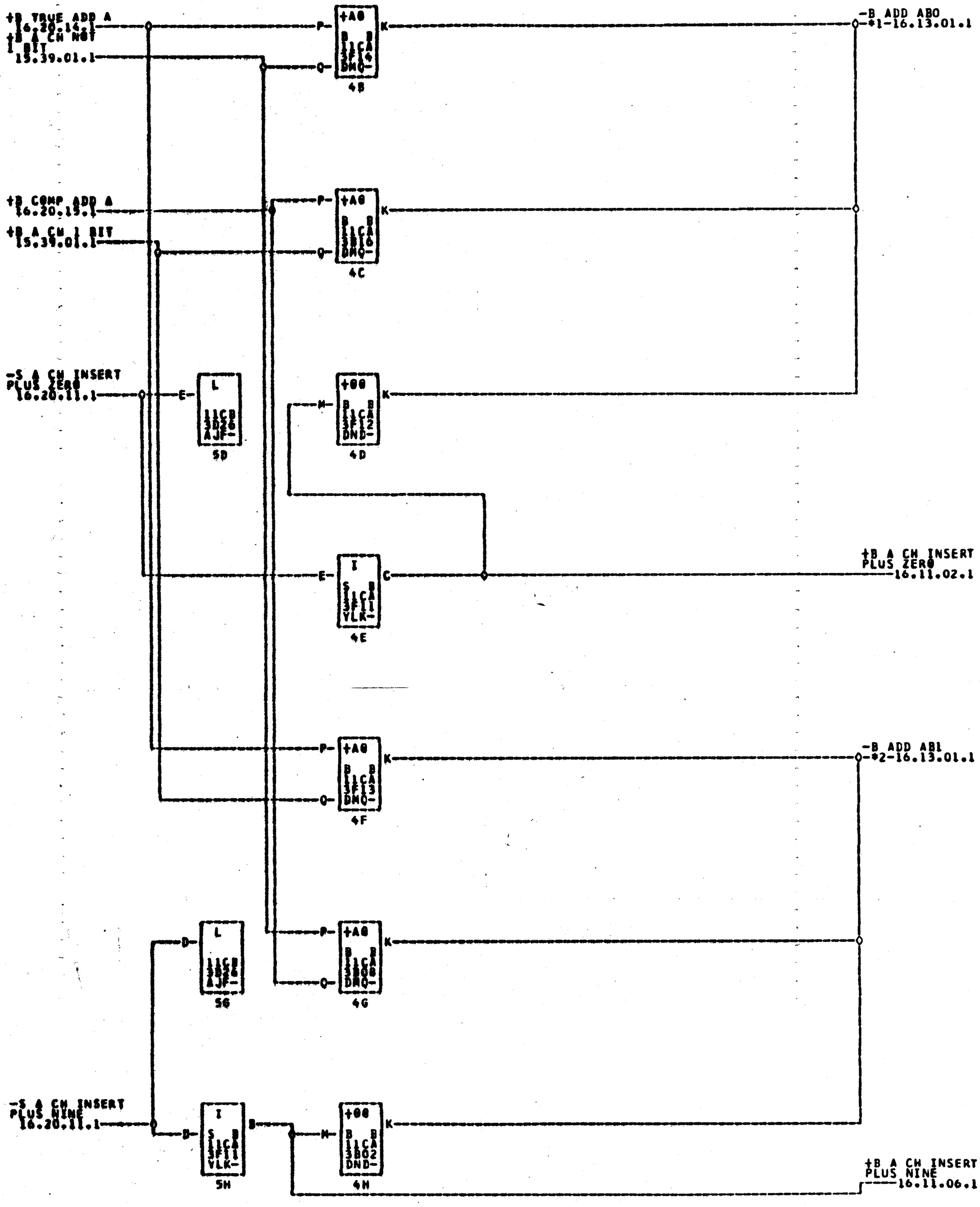

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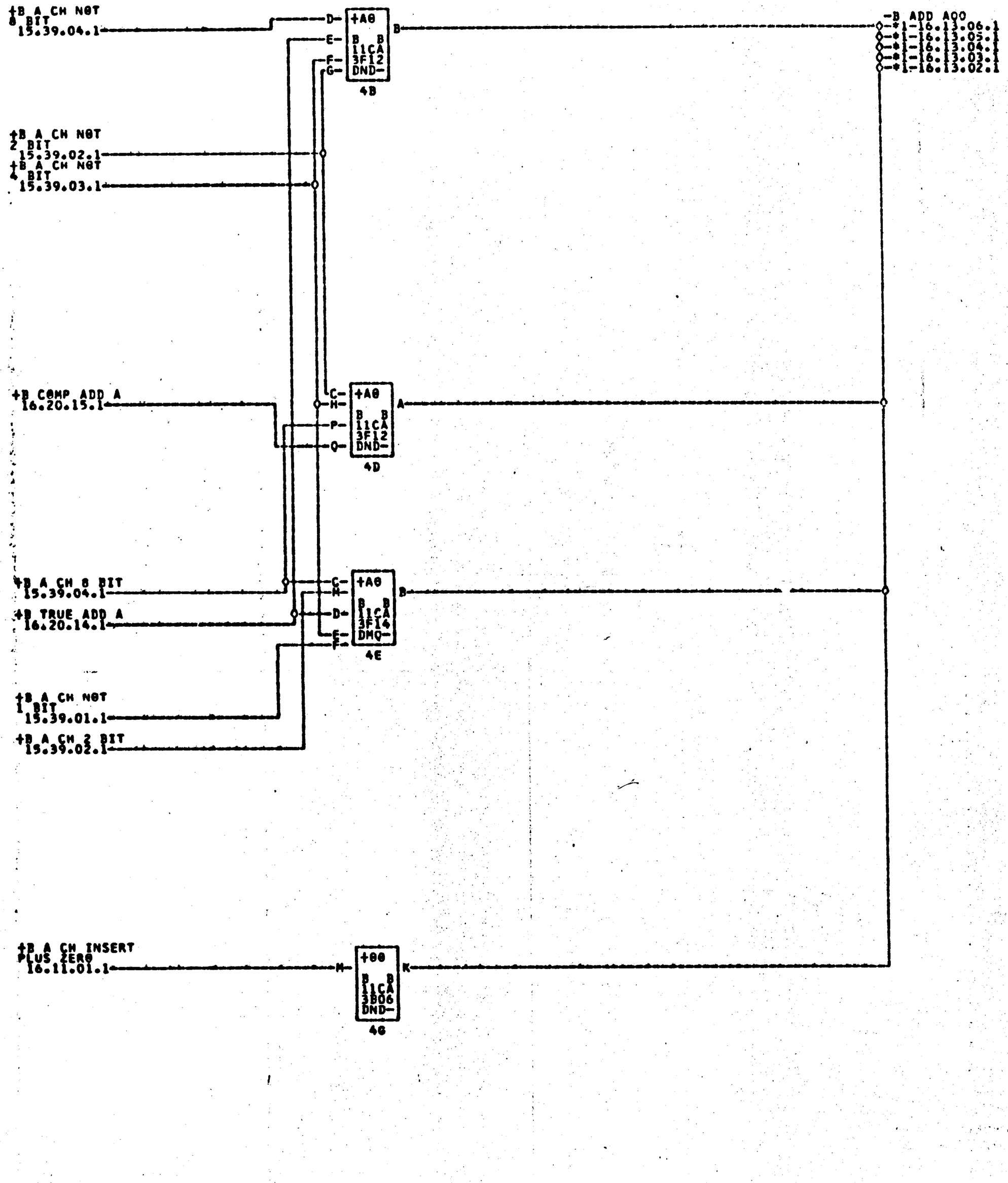

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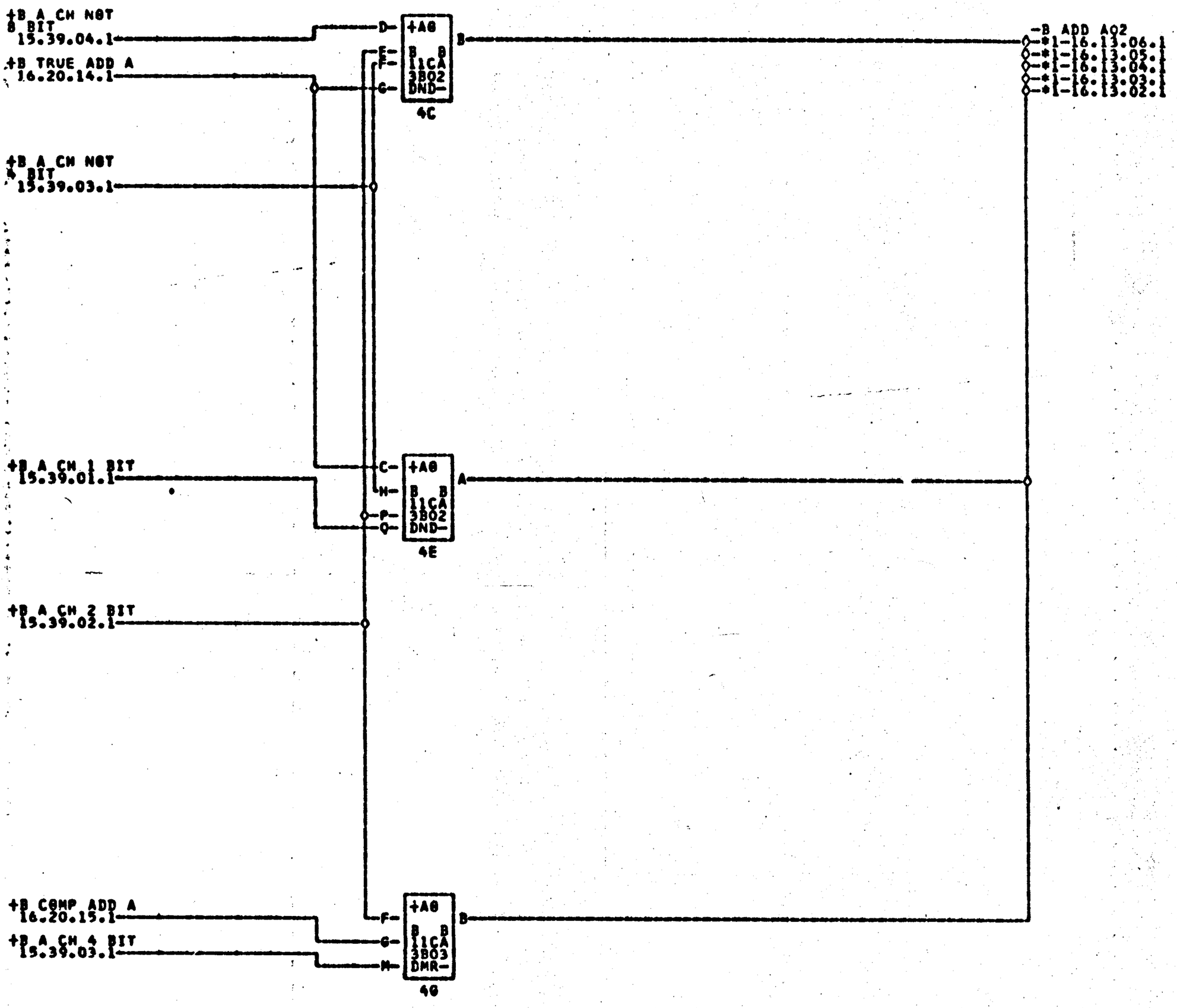

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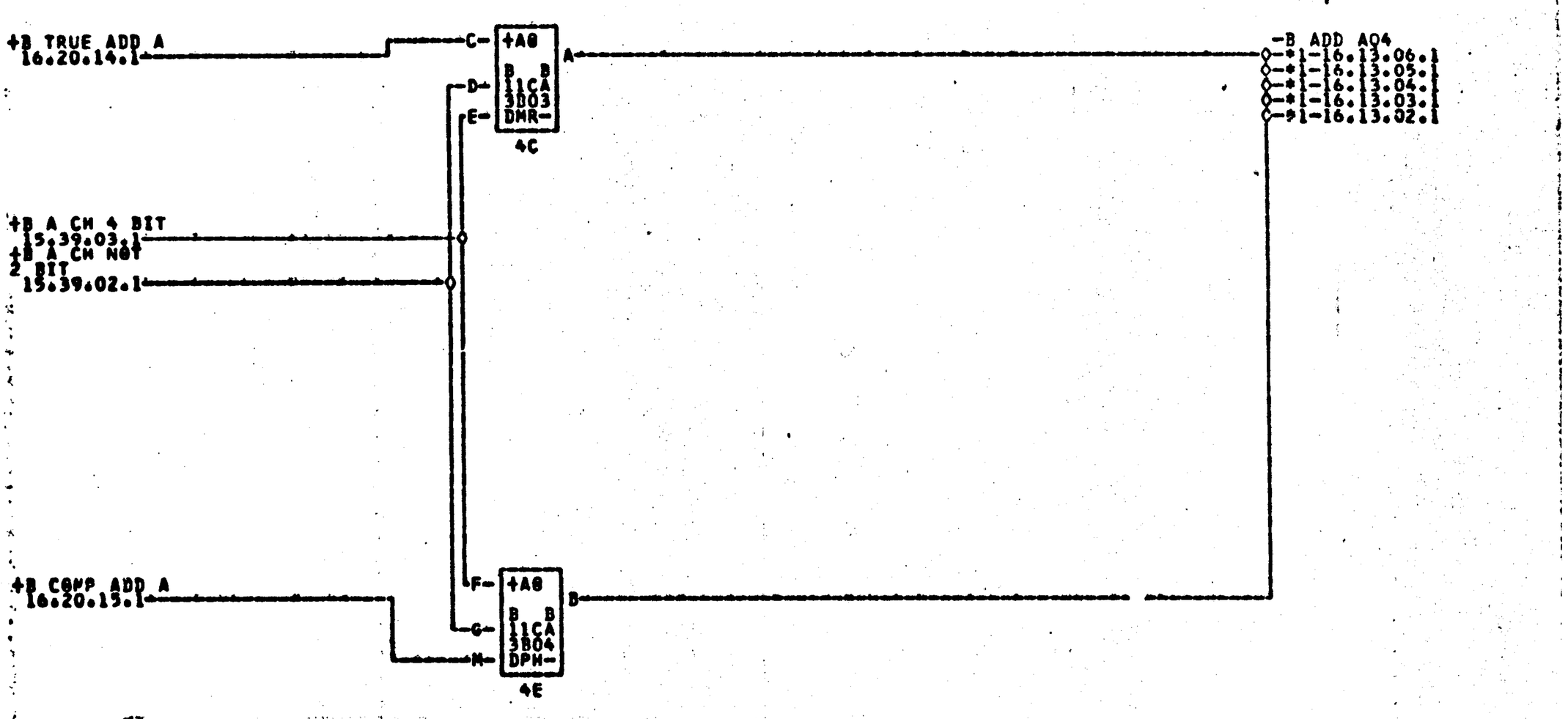

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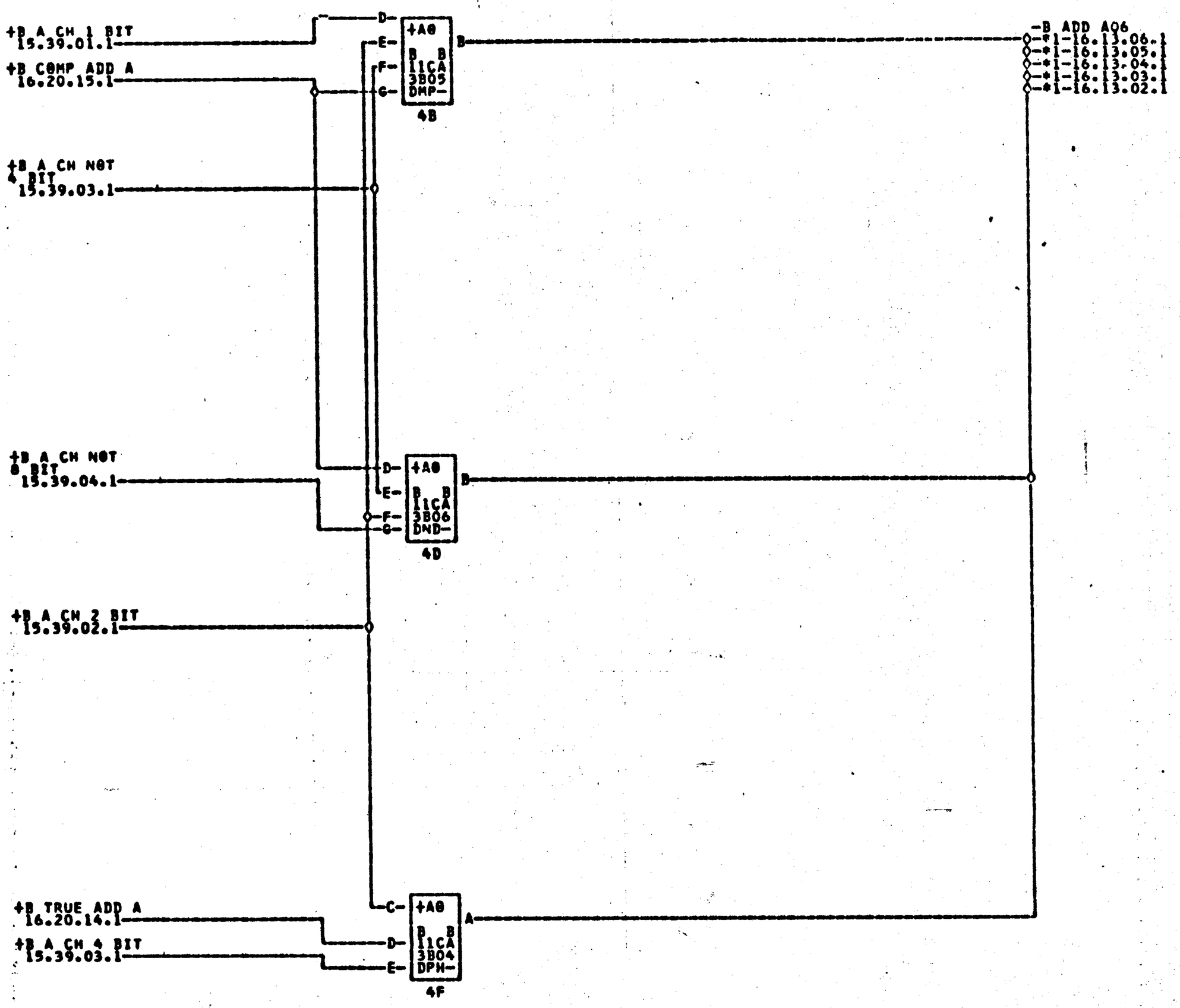

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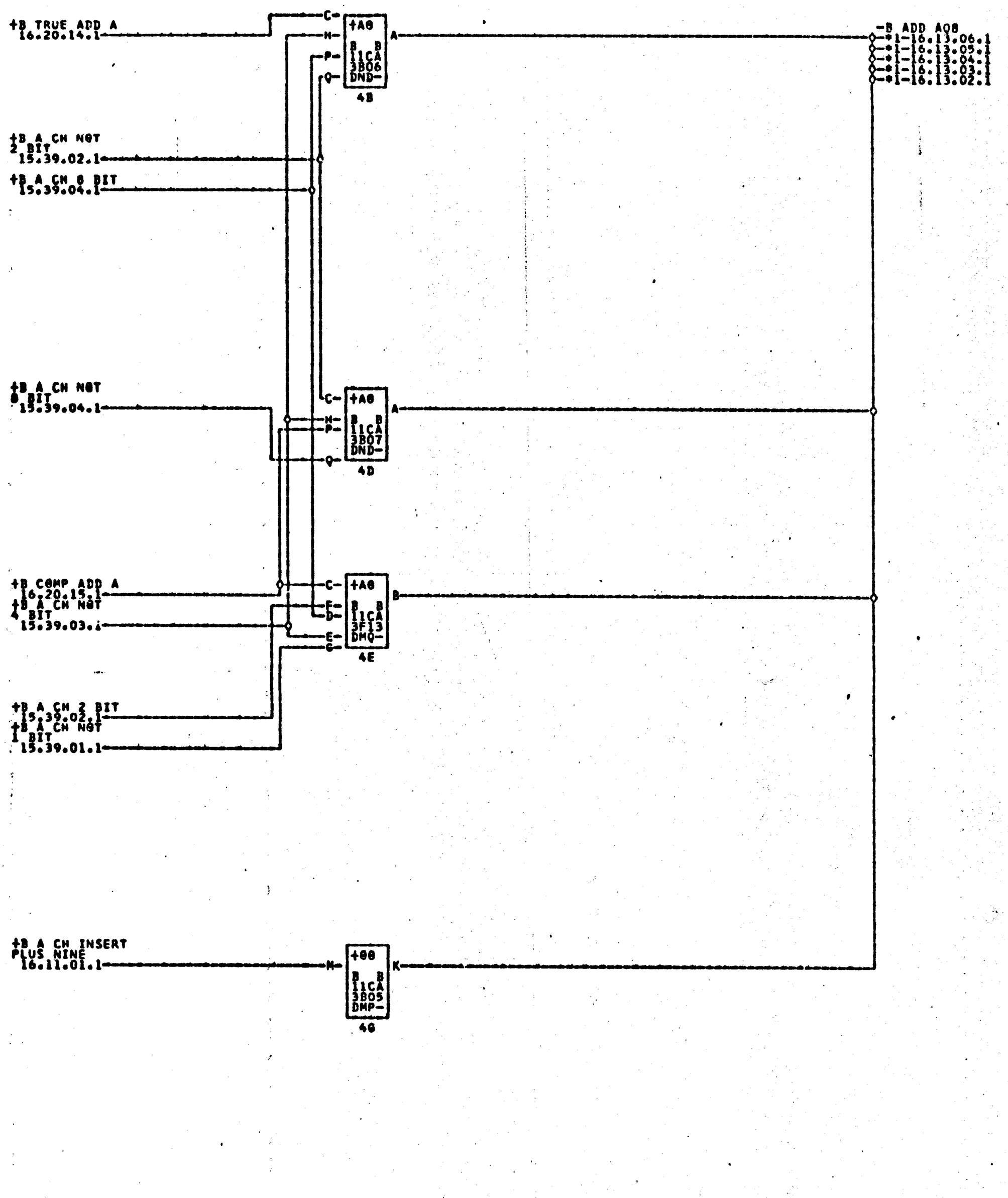

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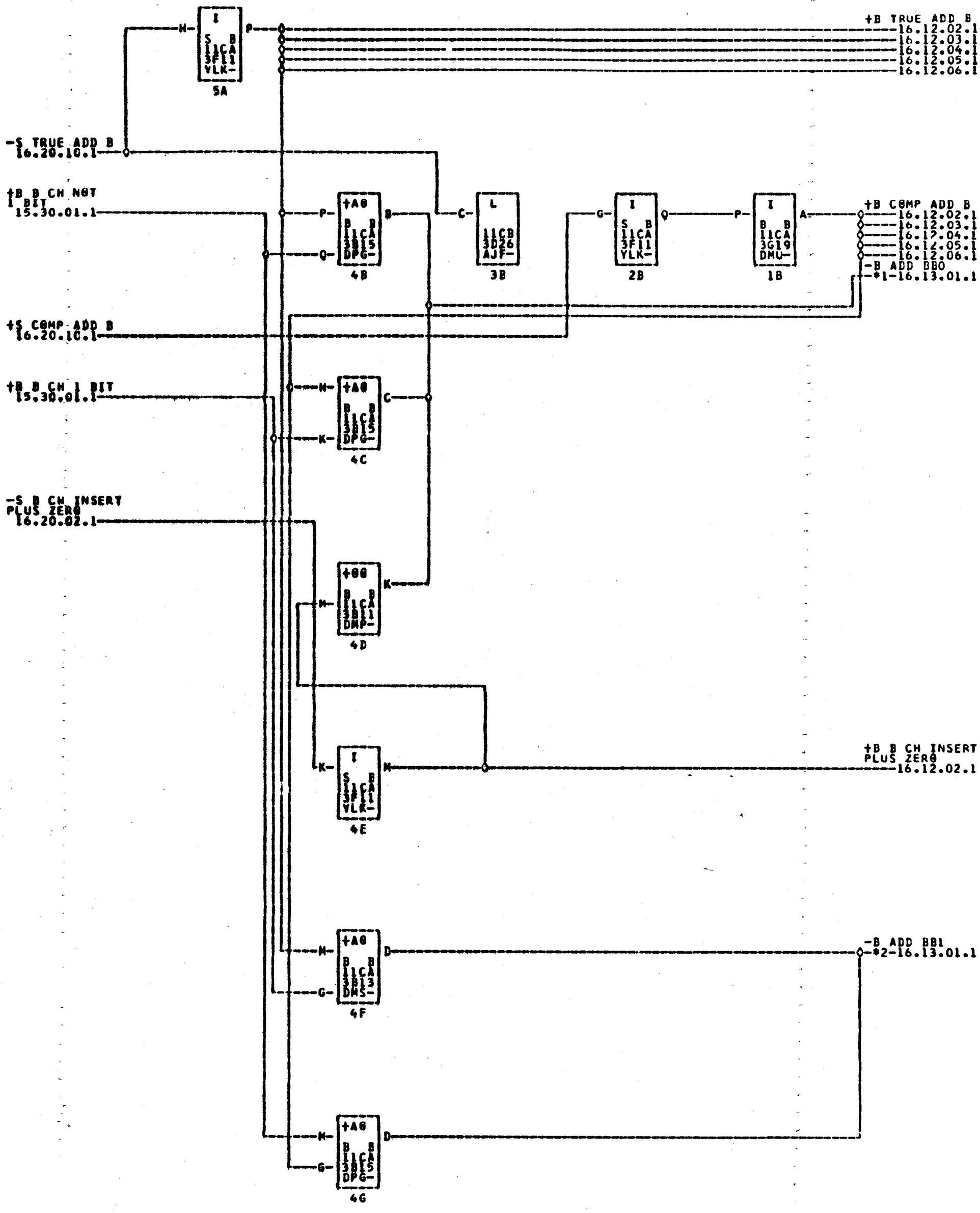

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COMMENTS

TAG	DATE	E.C.NO.
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B	06-02-64	253905

A

+B B CH NOT 8 BIT 15.30.04.1

+B B CH NOT 2 BIT 15.30.02.1

+B B CH NOT 4 BIT 1 15.30.03.1

+B COMP ADD B 16.12.01.1

+B B CH 8 BIT 15.30.04.1

+B TRUE ADD B 16.12.01.1

+B B CH NOT 1 BIT 15.30.01.1

+B B CH 2 BIT 1 15.30.02.1

+B B CH INSERT PLUS ZERO 16.12.01.1

4B: +A0, B B 11CA 3B07 DND-; D- E- F- G-; B

4D: +A0, B B 11CA 3B09 DND-; D- E- F- G-; B

4F: +A0, B B 11CA 3BI6 DMQ-; C- M- D- E- F-; B

4G: +00, B B 11CA 3B09 DND-; M-; K

-B ADD D00
*1-16.13.06.1
*1-16.13.05.1
*1-16.13.04.1
*1-16.13.03.1
*1-16.13.02.1

*1-11C3J27M-11C2A01M

1

COMMENTS

TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
A	06-13-62	251773									

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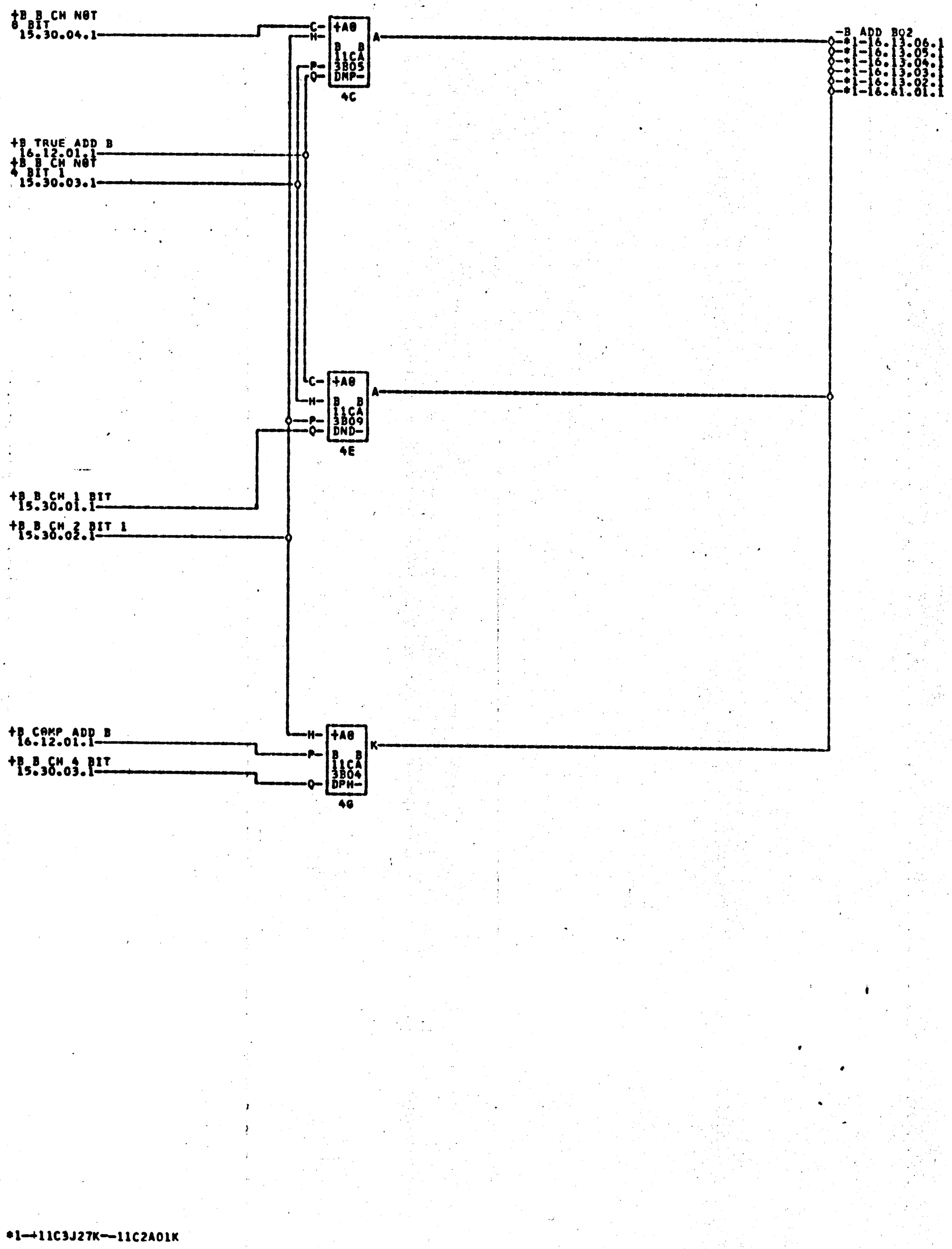

*1→11C3J27K—11C2A01K

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COMMENTS

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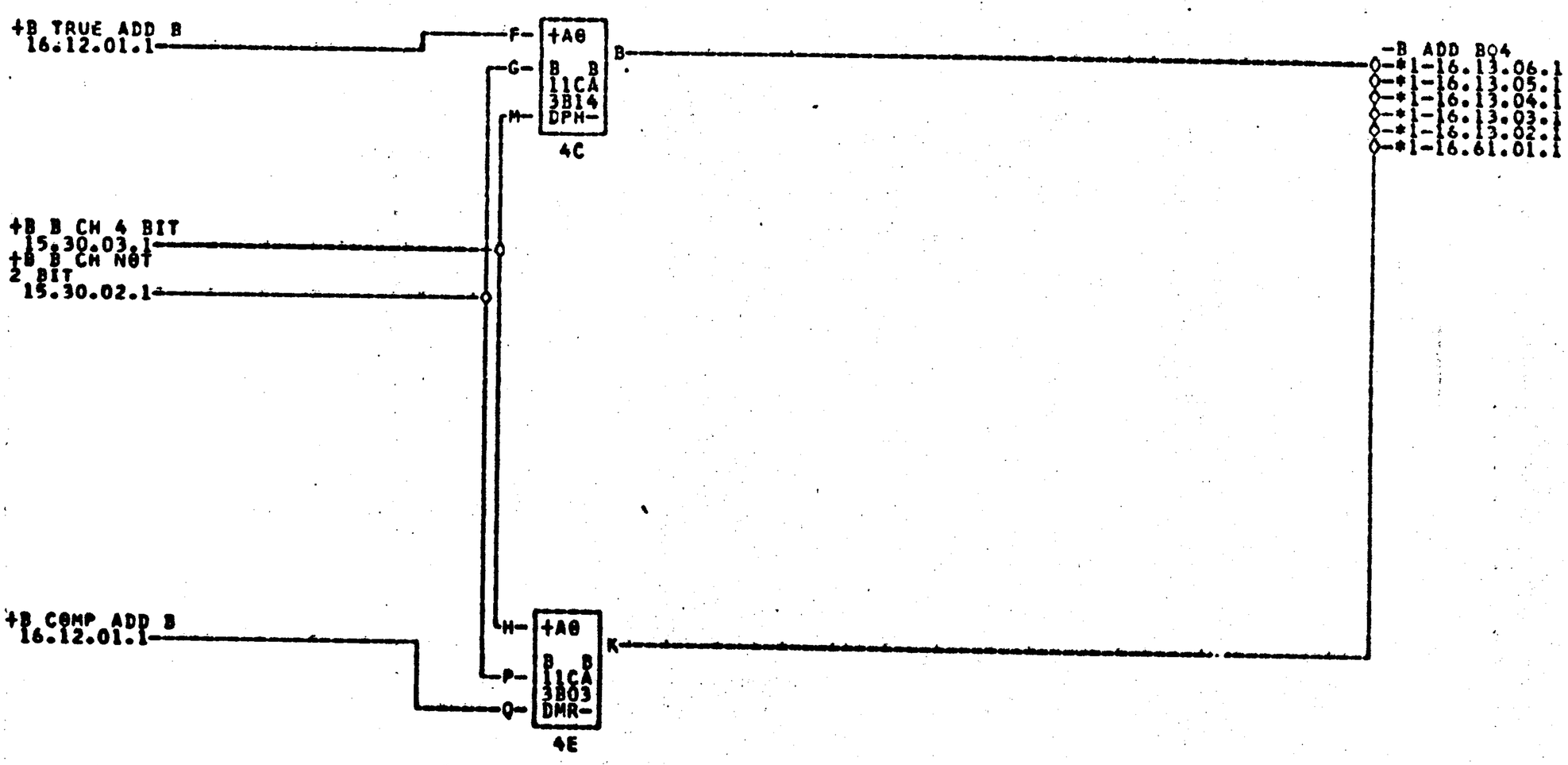

*1→11C3J27L—11C2A01L

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COMMENTS

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A	06-13-62	251773									

A

+B B CH 1 BIT 15.30.01.1
+B COMP ADD B 16.12.01.1
+B B CH NOT BIT 1 15.30.03.1
+B B CH NOT 2 BIT 15.30.04.1
+B B CH 2 BIT 1 15.30.02.1
+B TRUE ADD B 16.12.01.1
+B B CH 4 BIT 15.30.03.1

4B: +A0, B B 11CA 3B11 DMP-, D- E- F- G-, B
4D: +A0, B B 1ICA 3BIO DND-, D- E- F- G-, B
4F: +A0, B B 11CA 3BI4 DPH-, C- D- E-, A

-B ADD B06
*1-16.13.06.1
*1-16.13.05.1
*1-16.13.04.1
*1-16.13.03.1
*1-16.13.02.1
*1-16.61.01.1

*1—11C3J27M—11C2A01M

1

COMMENTS

TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
A	06-13-62	251773									

A

+B TRUE ADD B
16.12.01.1

+B B CH NOT
2 BIT
15.30.02.1

+B B CH 8 BIT
15.30.04.1

+B B CH NOT
8 BIT
15.30.04.1

+B COMP ADD B
16.12.01.1

+B B CH NOT
4 BIT 1
15.30.03.1

+B B CH 2 BIT 1
15.30.02.1

+B B CH NOT
1 BIT
15.30.01.1

4B: C, H, P, Q → A (+AB B B 1 1CA 3B11 DMP−)

4D: C, H, P, Q → A (+AB B B 1 1CA 3B10 DND−)

4G: D, F, C, G, E → B (+AB B B 1 1CA 3B08 DMQ−)

A → −B ADD BQ8
- *1−16.13.06.1
- *1−16.13.05.1
- *1−16.13.04.1
- *1−16.13.03.1
- *1−16.13.02.1

*1→11C3J27P—11C2A01P

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COMMENTS

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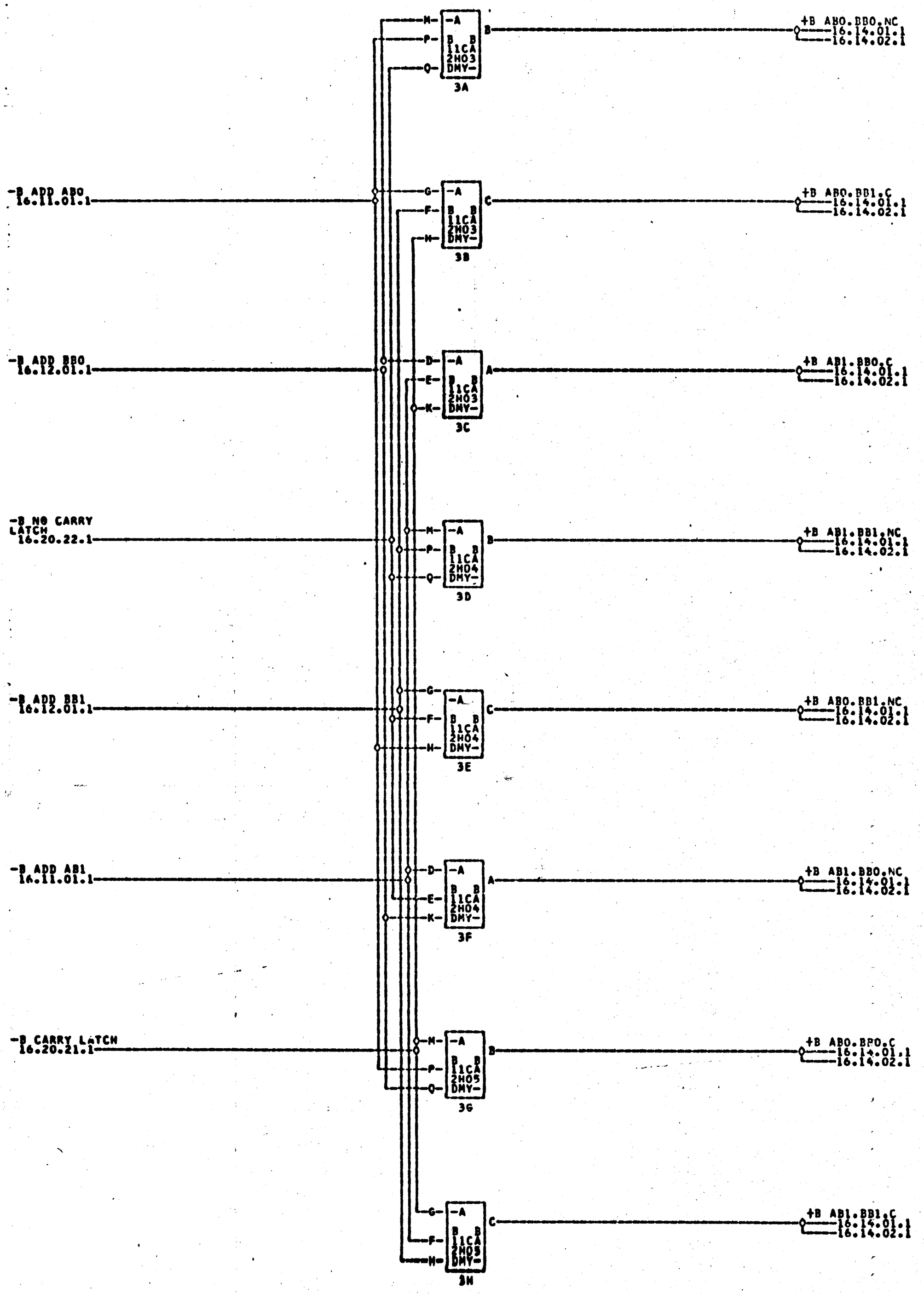

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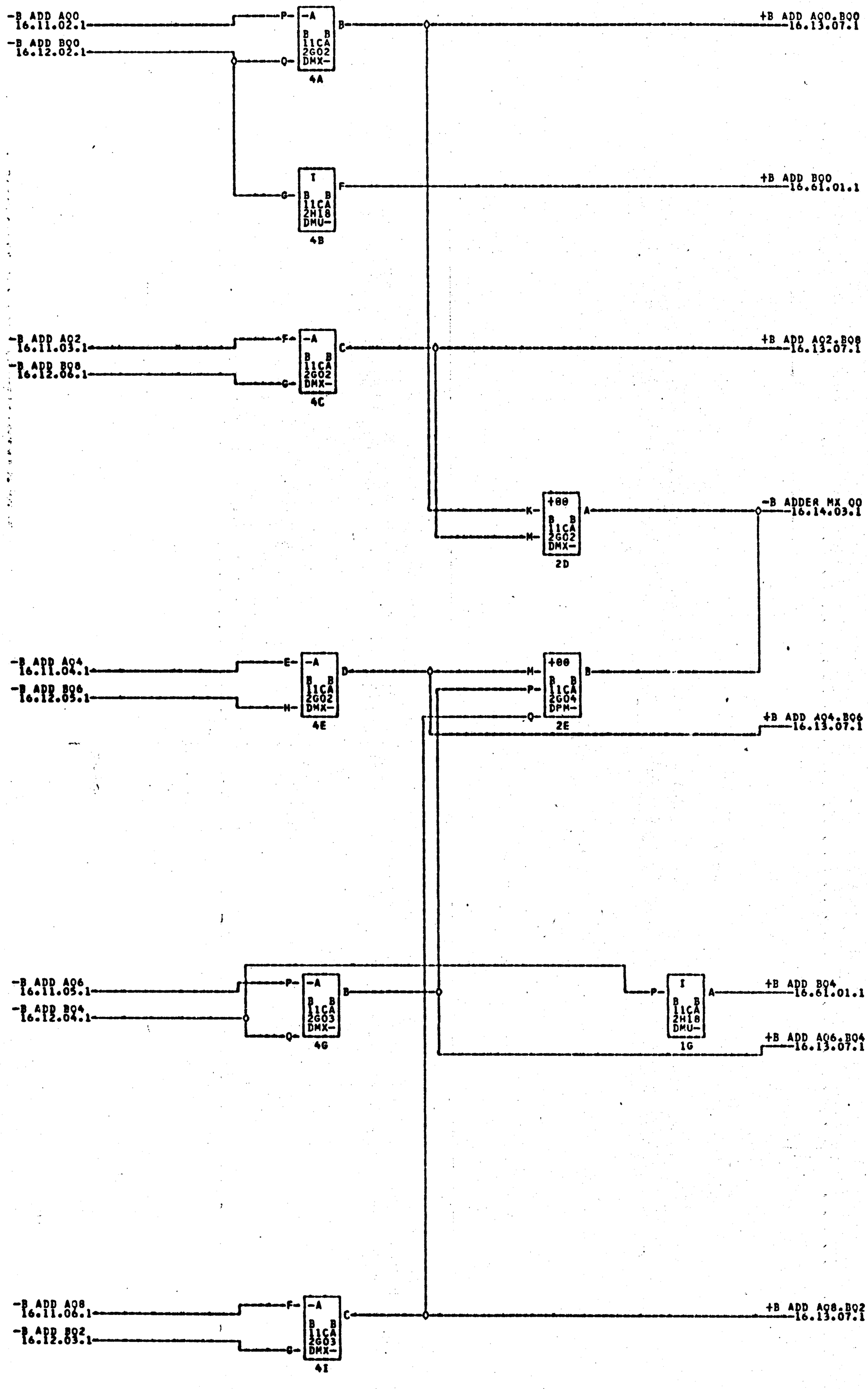

COMMENTS

TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
A	06-13-62	251773									

A

-B ADD AQ0 16.11.02.1 — K
-B ADD BQ2 16.12.03.1 — M
-A B B 1 1 C A 2 G 0 3 D M X —
A — 4A — +B ADD AQ0,BQ2 16.13.07.1

-B ADD AQ2 16.11.03.1 — E
-B ADD BQ0 16.12.02.1 — N
-A B B 1 1 C A 2 G 0 3 D M X —
D — 4C — +B ADD AQ2,BQ0 16.13.07.1

P, Q — +00 B B 1 1 C A 2 G 0 5 D M X — 2D — B — -B ADDER MX Q2 16.14.03.1

-B ADD AQ4 16.11.04.1 — F
-B ADD BQ8 16.12.06.1 — G
-A B B 1 1 C A 2 G 0 5 D M X —
C — 4E — +00 B B 1 1 C A 2 G 0 4 D P M — 2E — +B ADD AQ4,BQ8 16.13.07.1

-B ADD AQ6 16.11.05.1 — K
-B ADD BQ6 16.12.05.1 — M
-A B B 1 1 C A 2 G 0 5 D M X —
A — 4G — +B ADD AQ6,BQ6 16.13.07.1

-B ADD AQ8 16.11.06.1 — E
-B ADD BQ4 16.12.04.1 — N
-A B B 1 1 C A 2 G 0 5 D M X —
D — 4I — +B ADD AQ8,BQ4 16.13.07.1

1

COMMENTS

TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
A	06-13-62	251773									

A

-B ADD AQ0 16.11.02.1 → P
-B ADD BQ4 16.12.04.1 → Q
4A: -A; B B; 1 1 C A; 2 F 0 3; D M X-
B → +B ADD AQ0.BQ4 16.13.07.1

-B ADD AQ2 16.11.03.1 → F
-B ADD BQ2 16.12.03.1 → G
4C: -A; B B; 1 1 C A; 2 F 0 3; D M X-
C → +B ADD AQ2.BQ2 16.13.07.1

2D: +0 0; B B; 1 1 C A; 2 F 0 3; D M X-
K ← C; M ← B; A → -B ADDER MX Q4 16.14.04.1

-B ADD AQ4 16.11.04.1 → E
-B ADD BQ0 16.12.02.1 → H
4E: -A; B B; 1 1 C A; 2 F 0 3; D M X-
D → D, K

2E: +0 0; B B; 1 1 C A; 2 G 0 4; D P M-
E ← E
A → +B ADD AQ4.BQ0 16.13.07.1

-B ADD AQ6 16.11.05.1 → P
-B ADD BQ8 16.12.06.1 → Q
4G: -A; B B; 1 1 C A; 2 F 0 4; D M X-
B → +B ADD AQ6.BQ8 16.13.07.1

Q → M
4H: I; B B; 1 1 C A; 2 H 1 6; D M U-
C → +B ADD BQ8 16.61.01.1

-B ADD AQ8 16.11.06.1 → F
-B ADD BQ6 16.12.05.1 → G
4I: -A; B B; 1 1 C A; 2 F 0 4; D M X-
C → +B ADD AQ6.BQ6 16.13.07.1

1

COMMENTS

TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
A	06-13-62	251773									

A

-B ADD AQ0 16.11.02.1 — K-
-B ADD BQ6 16.12.05.1 — M-
-A B B 11CA 2F04 DMX-
4A
A — +B ADD AQ0.BQ6 16.13.07.1

-B ADD AQ2 16.11.03.1 — E-
-B ADD BQ4 16.12.04.1 — H-
-A B B 11CA 2F04 DMX-
4C
D — +B ADD AQ2.BQ4 16.13.07.1

+00 B B 11CA 2F05 DMX-
2D
P-, Q-
B — -B ADDER MX Q6 16.14.05.1

-B ADD AQ4 16.11.04.1 — F-
-B ADD BQ2 16.12.03.1 — G-
-A B B 11CA 2F05 DMX-
4E
C — +B ADD AQ4.BQ2 16.13.07.1

+00 B B 11CA 2F06 DPM-
2E
H-, P-, Q-
B

-B ADD AQ6 16.11.05.1 — K-
-B ADD BQ0 16.12.02.1 — M-
-A B B 11CA 2F05 DMX-
4G
A — +B ADD AQ6.BQ0 16.13.07.1

-B ADD AQ8 16.11.06.1 — E-
-B ADD BQ8 16.12.06.1 — H-
-A B B 11CA 2F05 DMX-
4I
D — +B ADD AQ8.BQ8 16.13.07.1

1

COMMENTS

TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
A	06-13-62	251773									

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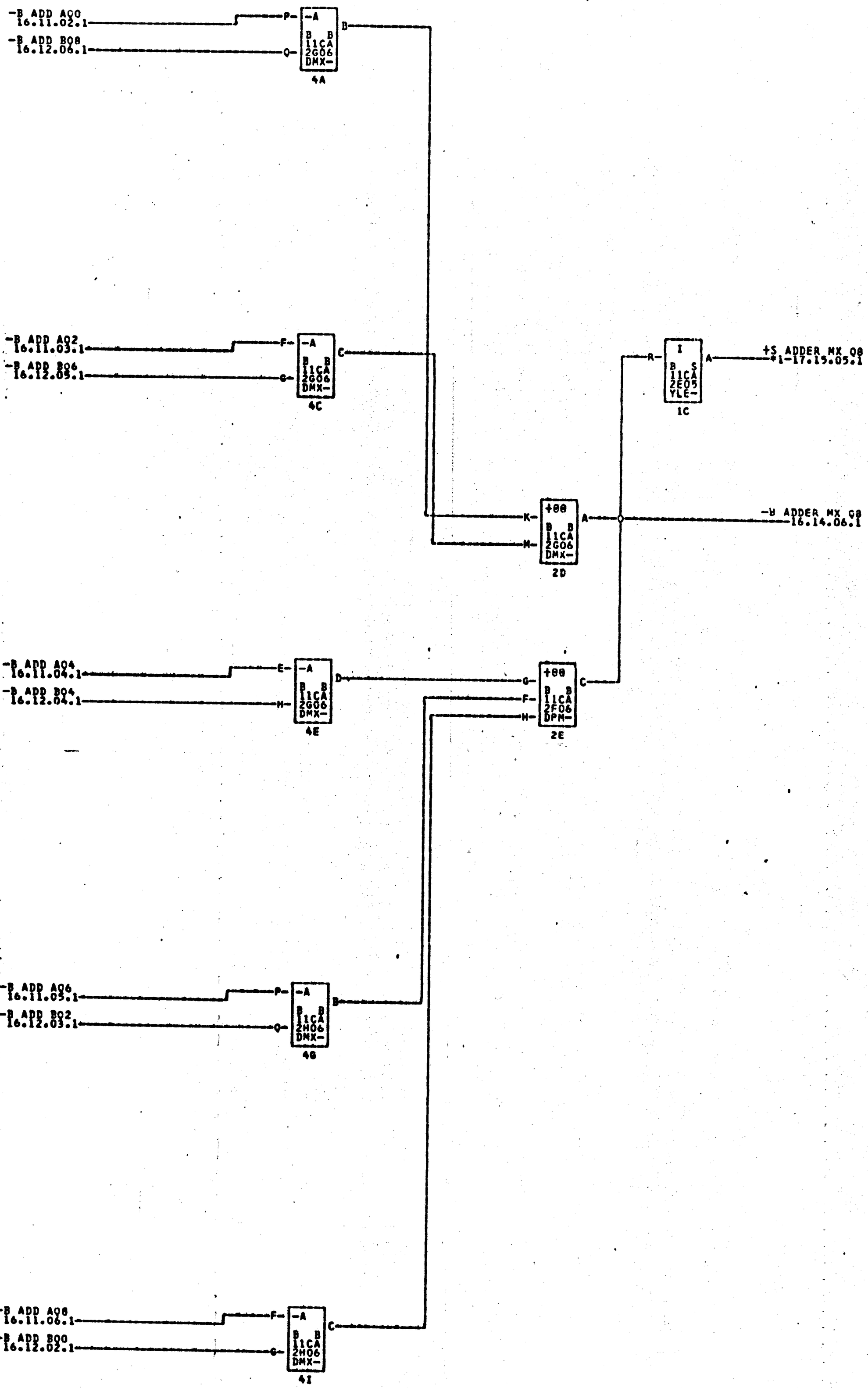

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COMMENTS

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A	06-13-62	251773									

A

+B ADD A00.B00 16.13.02.1
+B ADD A00.B02 16.13.03.1
+B ADD A02.B00 16.13.03.1
+B ADD A00.B04 16.13.04.1
+B ADD A02.B02 16.13.04.1
+B ADD A04.B02 16.13.05.1
+B ADD A04.B00 16.13.04.1
+B ADD A06.B00 16.13.05.1
+B ADD A02.B04 16.13.05.1
+B ADD A00.B06 16.13.05.1
+B ADD A08.B08 16.13.05.1
+B ADD A06.B08 16.13.04.1
+B ADD A04.B06 16.13.04.1
+B ADD A08.B04 16.13.03.1
+B ADD A06.B06 16.13.03.1
+B ADD A04.B08 16.13.03.1
+B ADD A08.B02 16.13.02.1
+B ADD A06.B04 16.13.02.1
+B ADD A04.B06 16.13.02.1
+B ADD A02.B08 16.13.02.1

4A +00 B B 11CA 2F07 DPB-
4C +00 B B 11CA 2F07 DPB-
4D +00 B B 11CA 2H06 DMX-
4F +00 B B 11CA 2G07 DPB-
4H +00 B B 11CA 2G07 DPB-
4I +00 B B 11CA 2H06 DMX-
2B I B S 11CA 2E05 YLE-
2G I B S 11CA 2E05 YLE-

-B ADDER MX N0 CARRY 0UT —16.14.06.1
+S ADDER MX N0 CARRY 0UT *1—17.15.05.1
-B ADDER MX CARRY 0UT —16.14.06.1
+S ADDER MX CARRY 0UT *2—17.15.05.1

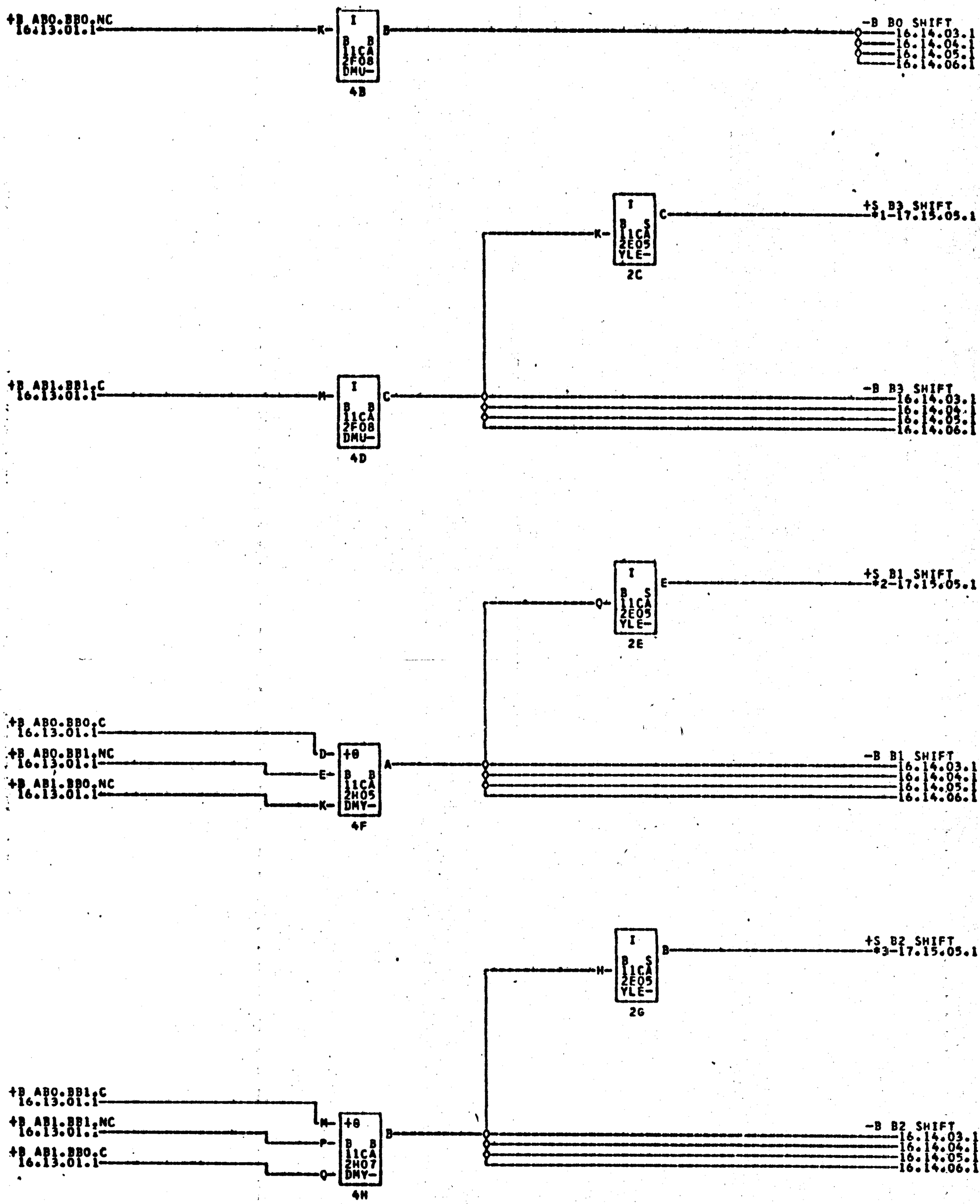
*1—11C2F28B—11D1F01B—11D1P28B—11D2F01B *2—11C2F28C—11D1F01C—11D1F28C—11D2F01C

1

COMMENTS

TAG	DATE	E.C.N0.	TAG	DATE	E.C.N0.	TAG	DATE	E.C.N0.	TAG	DATE	E.C.N0.
A	06-13-62	251773									

A



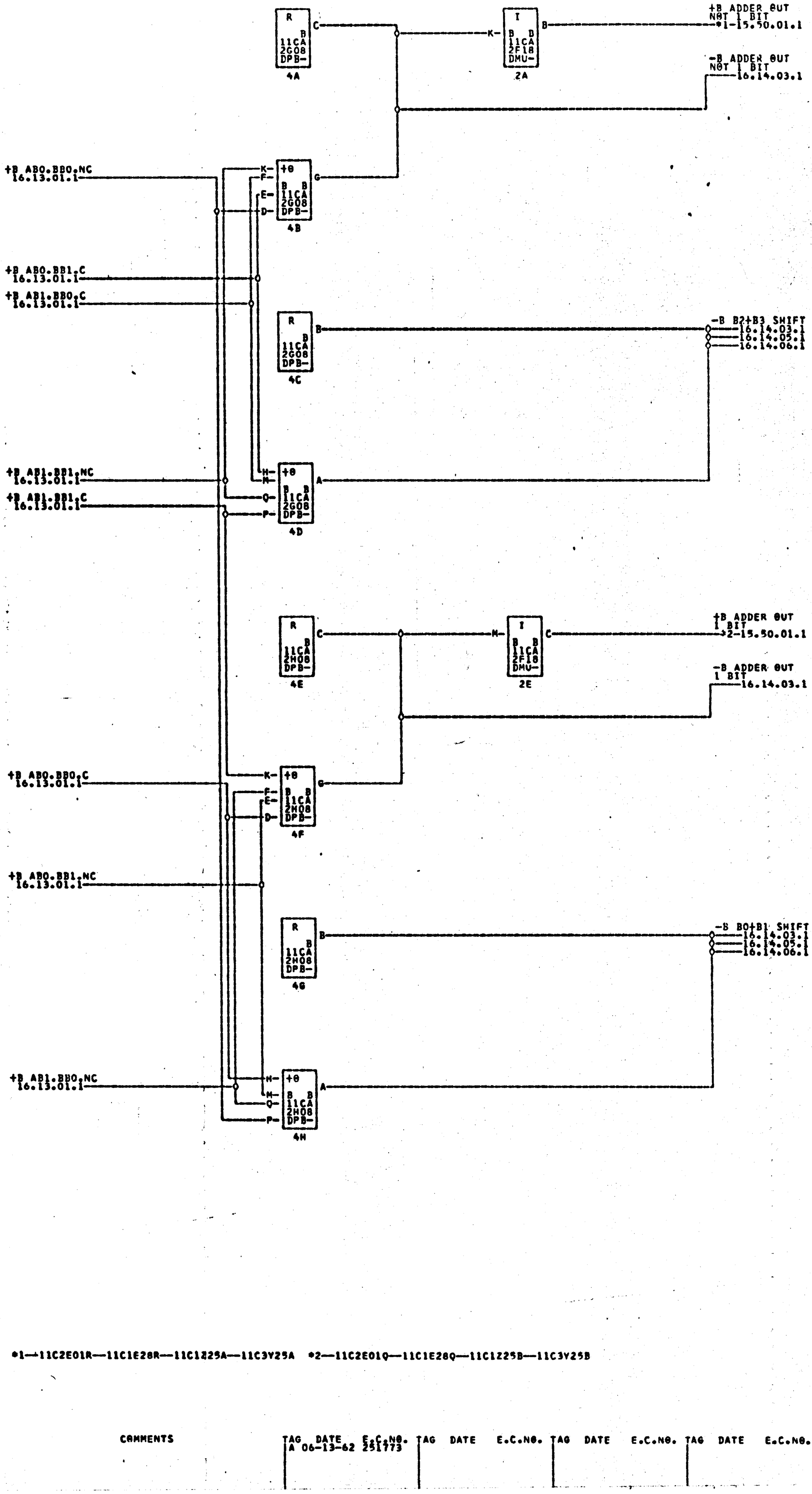
*1—11C2F28D—11D1F01D—11D1F28D—11D2F01D *2—11C2F28E—11D1F01E—11D1F28E—11D2F01E
*3—11C2F28F—11D1F01F—11D1F28F—11D2F01F

1

COMMENTS

TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
A	06-13-62	251773									

A



*1—11C2E01R—11C1E28R—11C1Z25A—11C3Y25A *2—11C2E01Q—11C1E28Q—11C1Z25B—11C3Y25B

1

COMMENTS

TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
A	06-13-62	251773									

A

-B ADDER MX QO
16.13.02.1 → K

-B BO SHIFT
16.14.01.1 → P, Q

-B B1 SHIFT
16.14.01.1 → F, G

-B B2 SHIFT
16.14.01.1 → K, M

-B B3 SHIFT
16.14.01.1 → E, H

-B ADDER OUT
NOT 1 BIT
16.14.02.1 → P

-B ADDER MX 02
16.13.03.1 → Q

-B ADDER OUT
1 BIT
16.14.02.1 → F

-B BO+B1 SHIFT
16.14.02.1 → K

-B B2+B3 SHIFT
16.14.02.1 → E

I B B 11CA 2H09 DMU-	4A	K	B → +B QO.ANY SHIFT 16.14.08.1
-A B B 11CA 2F09 DMX-	4B	P Q	B → +B QO.BO SHIFT 16.14.07.1, 16.14.09.1, 16.14.10.1
-A B B 11CA 2F09 DMX-	4C	F G	C → +B QO.B1 SHIFT 16.14.07.1, 16.14.09.1, 16.14.10.1
-A B B 11CA 2F09 DMX-	4D	K M	A → +B QO.B2 SHIFT 16.14.07.1, 16.14.09.1, 16.14.10.1
-A B B 11CA 2F09 DMX-	4E	E H	D → +B QO.B3 SHIFT 16.14.07.1, 16.14.09.1, 16.14.10.1
-A B B 11CA 2G09 DMX-	4F	P Q	B → +B 02.BO+B2 SHIFT 16.14.10.1
-A B B 11CA 2G09 DMX-	4G	F G	C → +B 02.B1+B3 SHIFT 16.14.10.1
-A B B 11CA 2G09 DMX-	4H	K M	A → +B 02.BO+B1 SHIFT 16.14.07.1, 16.14.08.1, 16.14.09.1
-A B B 11CA 2G09 DMX-	4I	E H	D → +B 02.B2+B3 SHIFT 16.14.07.1, 16.14.08.1, 16.14.09.1

COMMENTS

TAG	DATE	E.C.NO.
A	06-13-62	251773

TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.

-B ADDER MX 04
16.13.04.1

-B BO SHIFT
16.14.01.1

-B B1 SHIFT
16.14.01.1

-B B2 SHIFT
16.14.01.1

-B B3 SHIFT
16.14.01.1

4B: I, B B, 11CA, 2H09, DMU-; M in, C out
4C: -A, B B, 11CA, 2G10, DMX-; P in, Q in, B out
4D: -A, B B, 11CA, 2G10, DMX-; F in, G in, C out
4E: -A, B B, 11CA, 2G10, DMX-; K in, M in, A out
4F: -A, B B, 11CA, 2G10, DMX-; E in, H in, D out

+B Q4.ANY SHIFT
16.14.08.1
16.14.09.1

+B Q4.B0 SHIFT
16.14.07.1
16.14.10.1

+B Q4.B1 SHIFT
16.14.07.1
16.14.10.1

+B Q4.B2 SHIFT
16.14.07.1
16.14.10.1

+B Q4.B3 SHIFT
16.14.07.1
16.14.10.1

1

COMMENTS

TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
A	06-13-62	251773									

A

-B 30 SHIFT 16.14.01.1 → P

Q → -B ADDER MX Q6 16.13.05.1

Q → -B B1 SHIFT 16.14.01.1

Q → -B B2 SHIFT 16.14.01.1

Q → -B B3 SHIFT 16.14.01.1

-B B0+B1 SHIFT 16.14.02.1 → P

Q → -B B2+B3 SHIFT 16.14.02.1

4B: -A, B 1 1 C A, B 2 H I O, DMX- → B → +B Q6.B0 SHIFT 16.14.10.1

4C: -A, B 1 1 C A, B 2 H I O, DMX- → F, G → C → +B Q6.B1 SHIFT 16.14.10.1

4D: -A, B 1 1 C A, B 2 H I O, DMX- → K, M → A → +B Q6.B2 SHIFT 16.14.10.1

4E: -A, B 1 1 C A, B 2 H I O, DMX- → E, H → D → +B Q6.B3 SHIFT 16.14.10.1

4F: -A, B 1 1 C A, B 2 G I 1, DMX- → P, Q → B → +B Q6.B0+B1 SHIFT 16.14.07.1, 16.14.08.1, 16.14.09.1

4G: -A, B 1 1 C A, B 2 G I 1, DMX- → F, G → C → +B Q6.B2+B3 SHIFT 16.14.07.1, 16.14.08.1, 16.14.09.1

1

COMMENTS

TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
A	06-13-62	251773									

A

-B B0 SHIFT 16.14.01.1 — K — 5B -A (B B 1 1CA 2G 1 1 DMX-) A — +B Q8.B0 SHIFT 16.14.08.1, 16.14.10.1

-B B1 SHIFT 16.14.01.1 — E, H — 5C -A (B B 1 1CA 2G 1 1 DMX-) D — +B Q8.B1 SHIFT 16.14.08.1, 16.14.10.1

-B B2 SHIFT 16.14.01.1 — P, Q — 5D -A (B B 1 1CA 2H 1 1 DMX-) B — +B Q8.B2 SHIFT 16.14.07.1, 16.14.09.1, 16.14.10.1

-B B3 SHIFT 16.14.01.1 — F, G — 5E -A (B B 1 1CA 2H 1 1 DMX-) C — +B Q8.B3 SHIFT 16.14.07.1, 16.14.09.1, 16.14.10.1

-B B0+B1 SHIFT 16.14.02.1 — K, M — 5F -A (B B 1 1CA 2H 1 1 DMX-) A — 4F I (B B 1 1CA 2F 08 DMU-) D — P, Q — 3F -B (B B 1 1CA 2G 1 2 DMS-) B — R — 2F I (B S 1 1CA 2E 04 YLE-) A — A — 1F IP (S S 1 1CA 2D 09 DFS-) FH — +S ADDER N0 CARRY *1 — 14.18.05.1, 16.20.20.1

-B ADDER MX N0 CARRY OUT 16.13.07.1 — M — 5F

-B ADDER MX Q8 16.13.06.1 — K — 5F

+B ADDER N0 CARRY — 16.20.04.1, 16.20.05.1, 16.60.01.1, 16.60.02.1

+T Q8.B0+B1 SHIFT — 16.14.07.1, 16.14.09.1

-B B2+B3 SHIFT 16.14.02.1 — E, H — 5H -A (B B 1 1CA 2H 1 1 DMX-) D' — H — 4H I (B B 1 1CA 2F 08 DMU-) E — H, K — 3H -B (B B 1 1CA 2G 1 2 DMS-) C — P — 2H I (B S 1 1CA 2E 04 YLE-) D — L — 1H IP (S S 1 1CA 2D 09 DFS-) RG — +S ADDER CARRY *2 — 14.18.05.1, 16.20.20.1

-B ADDER MX CARRY OUT 16.13.07.1 — H — 5H

+B ADDER CARRY — 16.20.04.1, 16.20.05.1, 16.60.01.1, 16.60.02.1

+B Q8.B2+B3 SHIFT — 16.14.08.1

A — 3I I (S S 1 1CA 2B 24 DEW-) LJ — B — 2I DI (S V 1 1CA 2B 09 DEA-) A — *3 — A — 1I LAMP (15AA 1C 11 LAMP) CARRY OUT

*1—11C2F01A—11C1F28A—11C1Z27C—11C3Y27C *2—11C2F01B—11C1F28B—11C1Z27D—11C3Y27D
*3—11C2A27P—11C7L51P—15A4A19B—15A4A20B

1

COMMENTS

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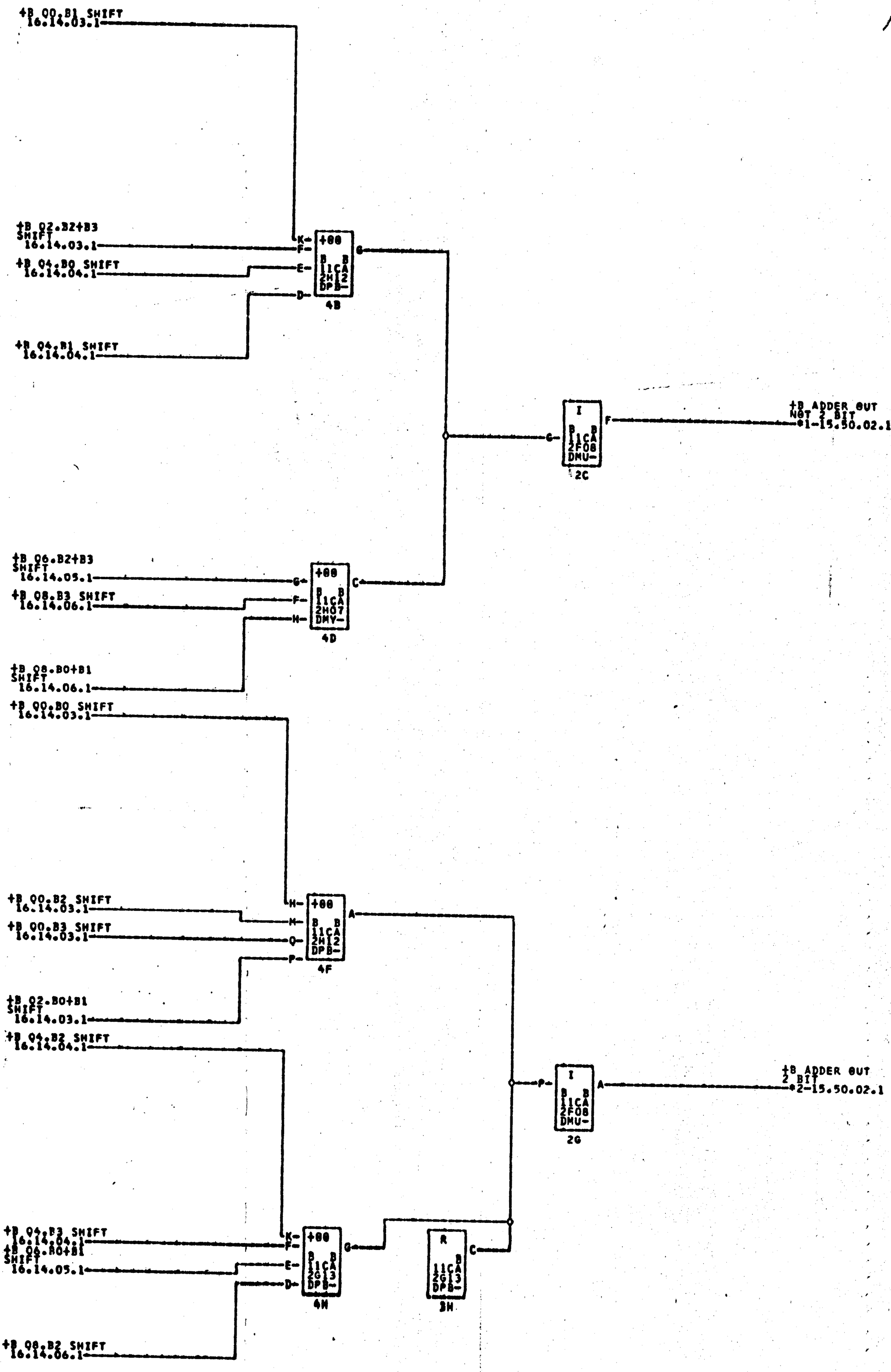
A	06-13-62	251773									



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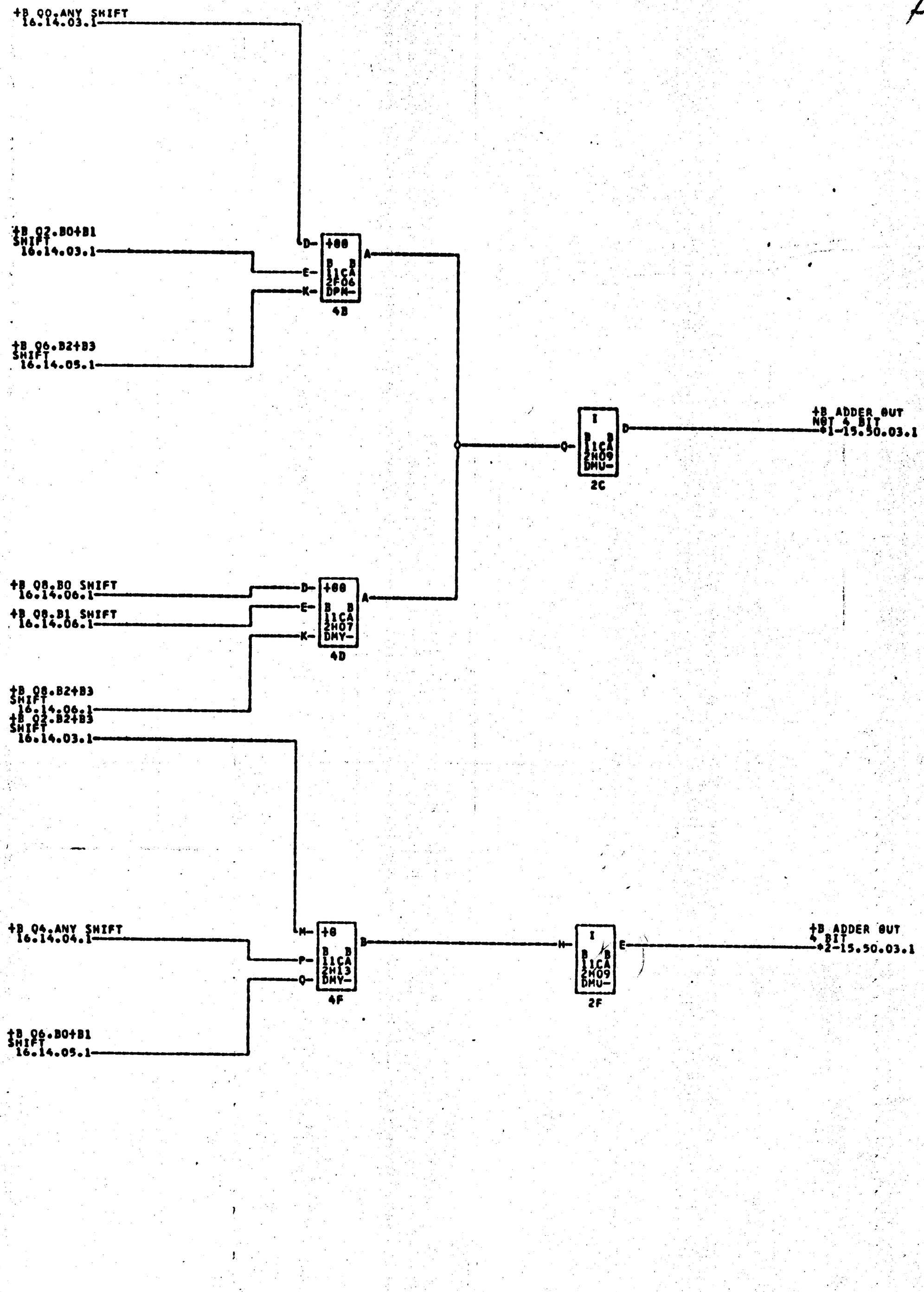
COMMENTS

TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
A	06-13-62	251773									

A



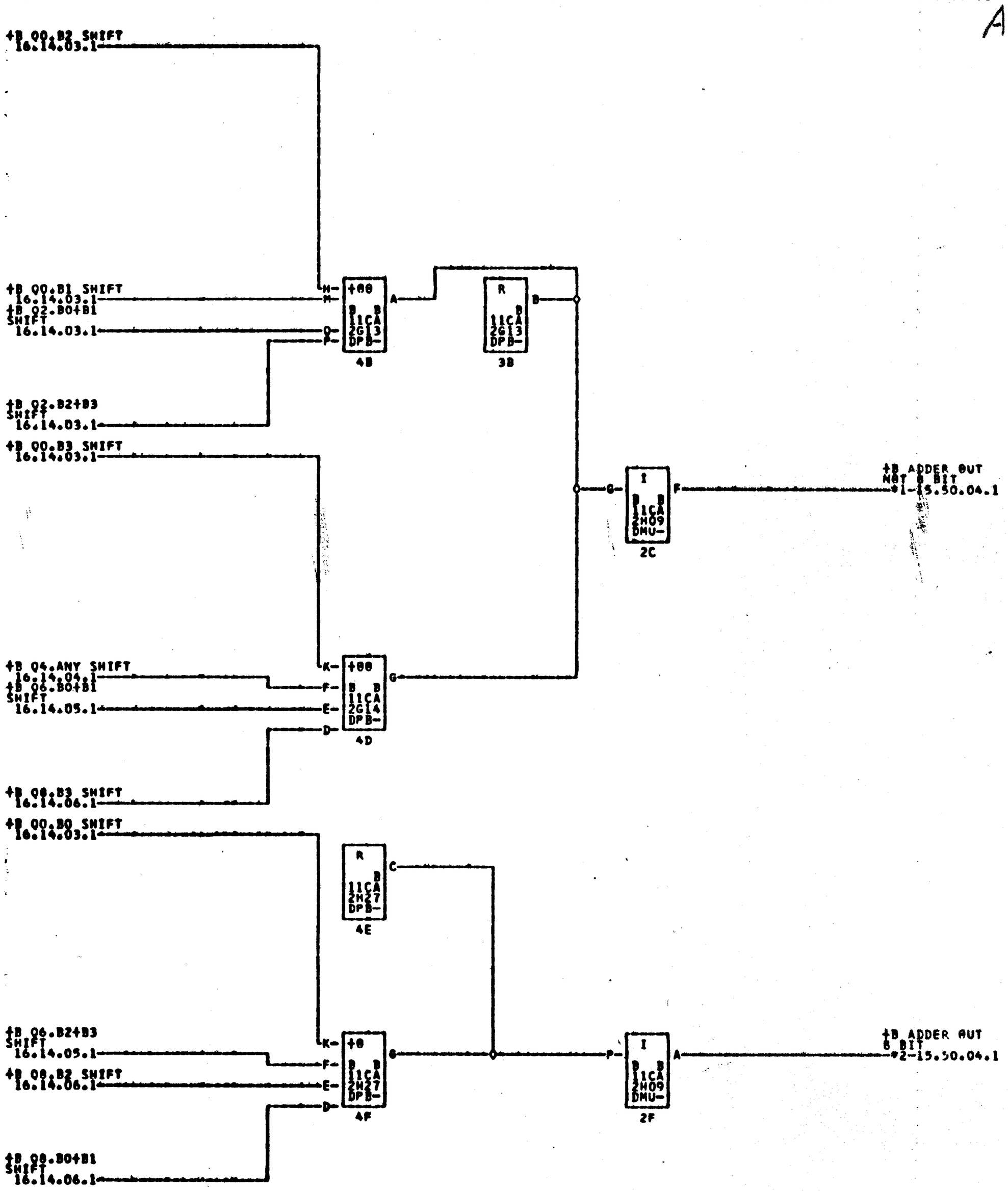
*1—11C2E01M—11C1E28M—11C1Z26A—11C3Y26A *2—11C2E02R—11C3G26R

1

COMMENTS

TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
A	06-13-62	251773									

A

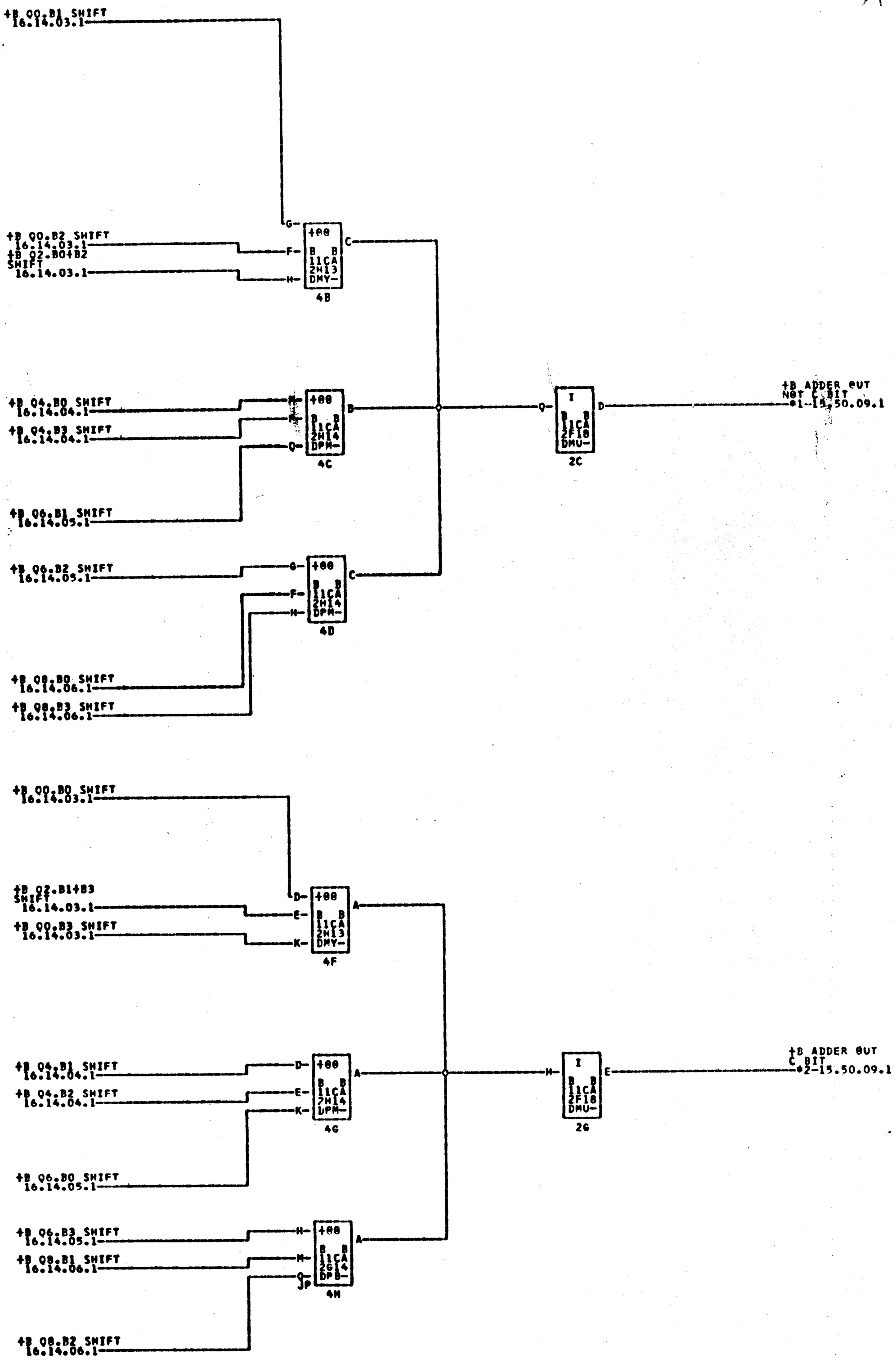


*1—11C2E02Q—11C3G26Q *2—11C2E02P—11C3G26P

1

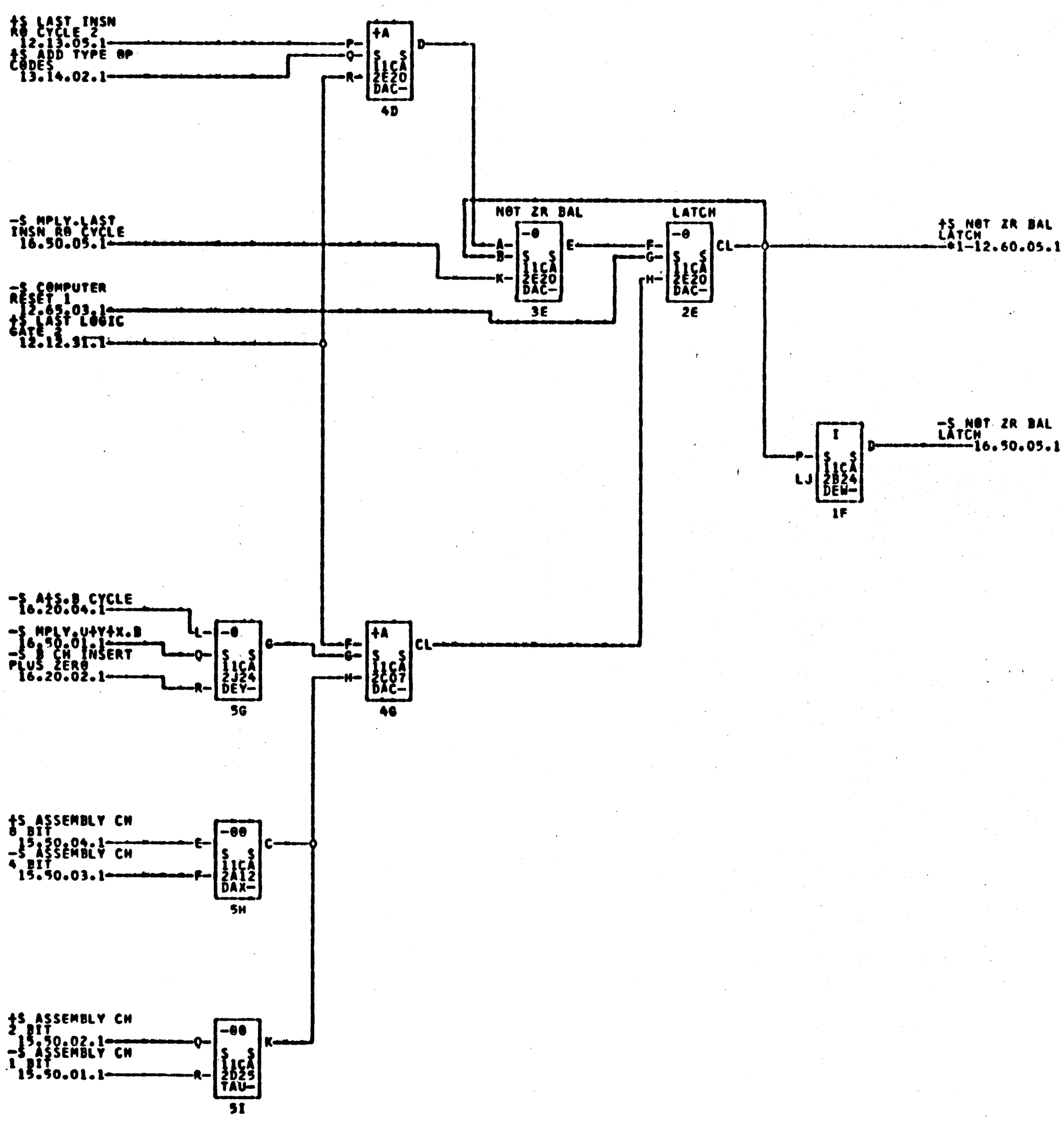
COMMENTS

TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
A	06-13-62	251773									



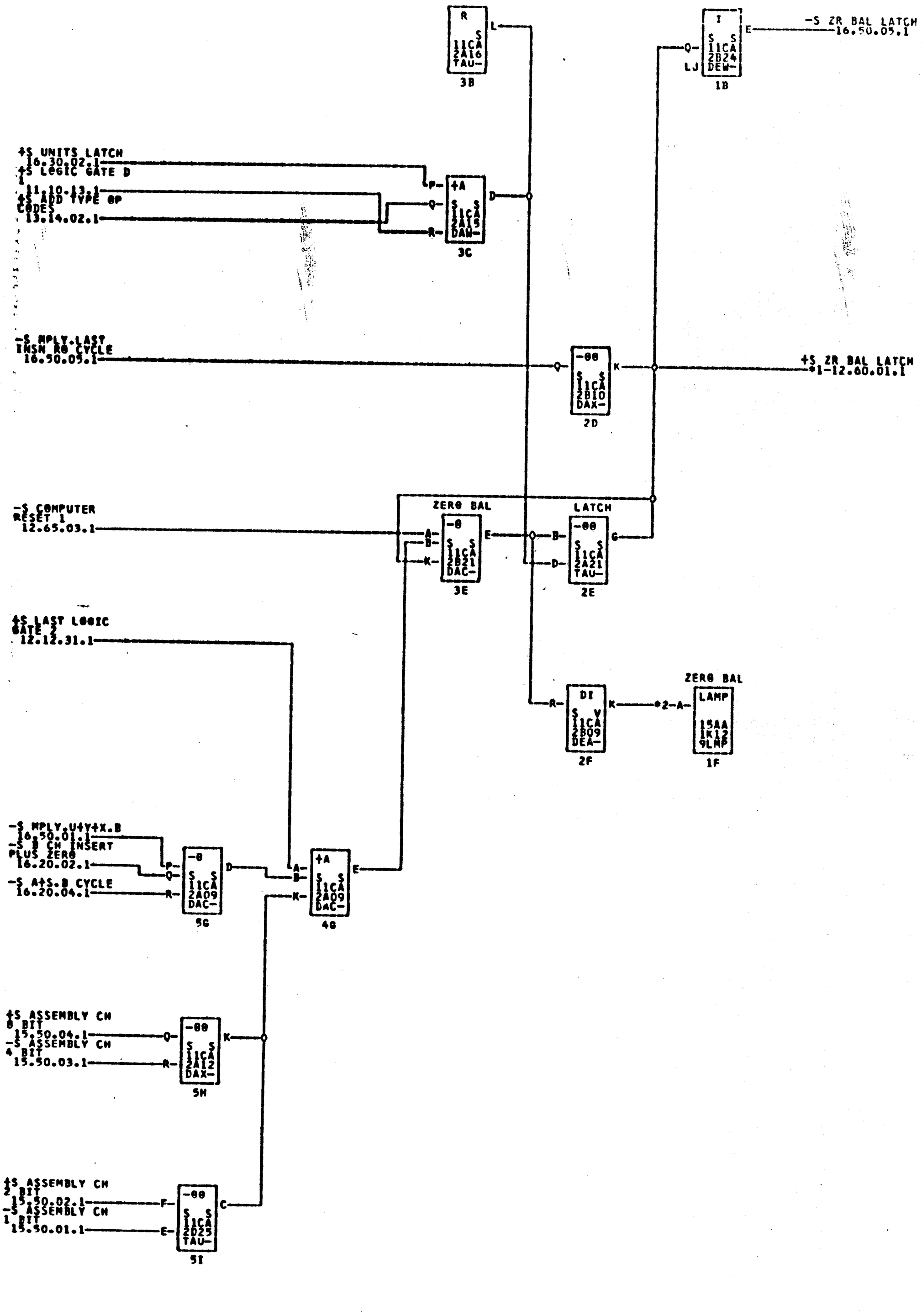
*1—11C2E02N—11C3G26N *2—11C2E02M—11C3G26M

COMMENTS	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
	A	06-13-62	251773									



COMMENTS

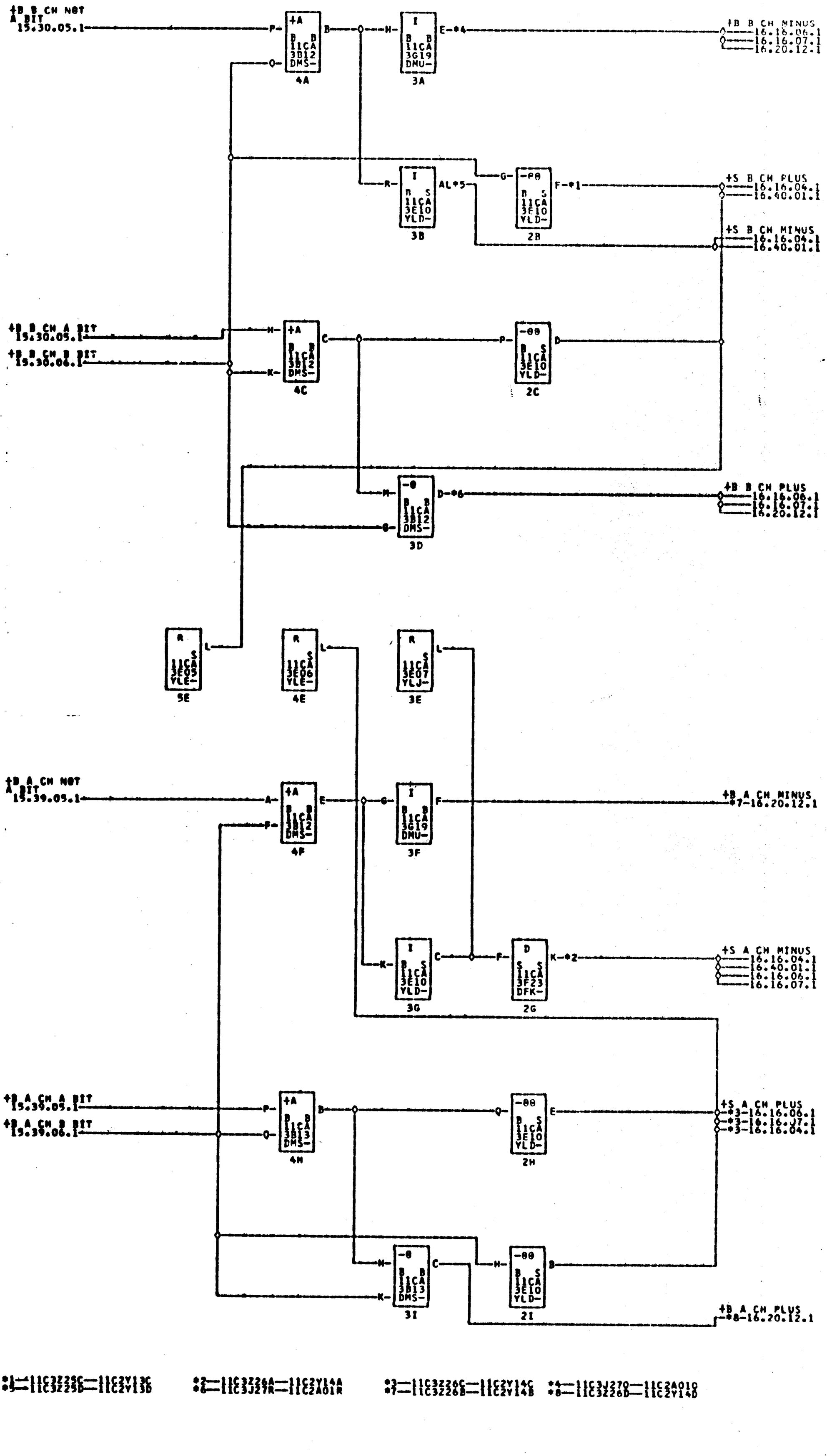
TAG	DATE	E.C.NØ.	TAG	DATE	E.C.NØ.	TAG	DATE	E.C.NØ.	TAG	DATE	E.C.NØ.
A	06-13-62	251773									



*1—11C2E28P—11D1E01P *2—11C2A27Q—11C7L51Q—15A4A19K—15A4A20K

COMMENTS

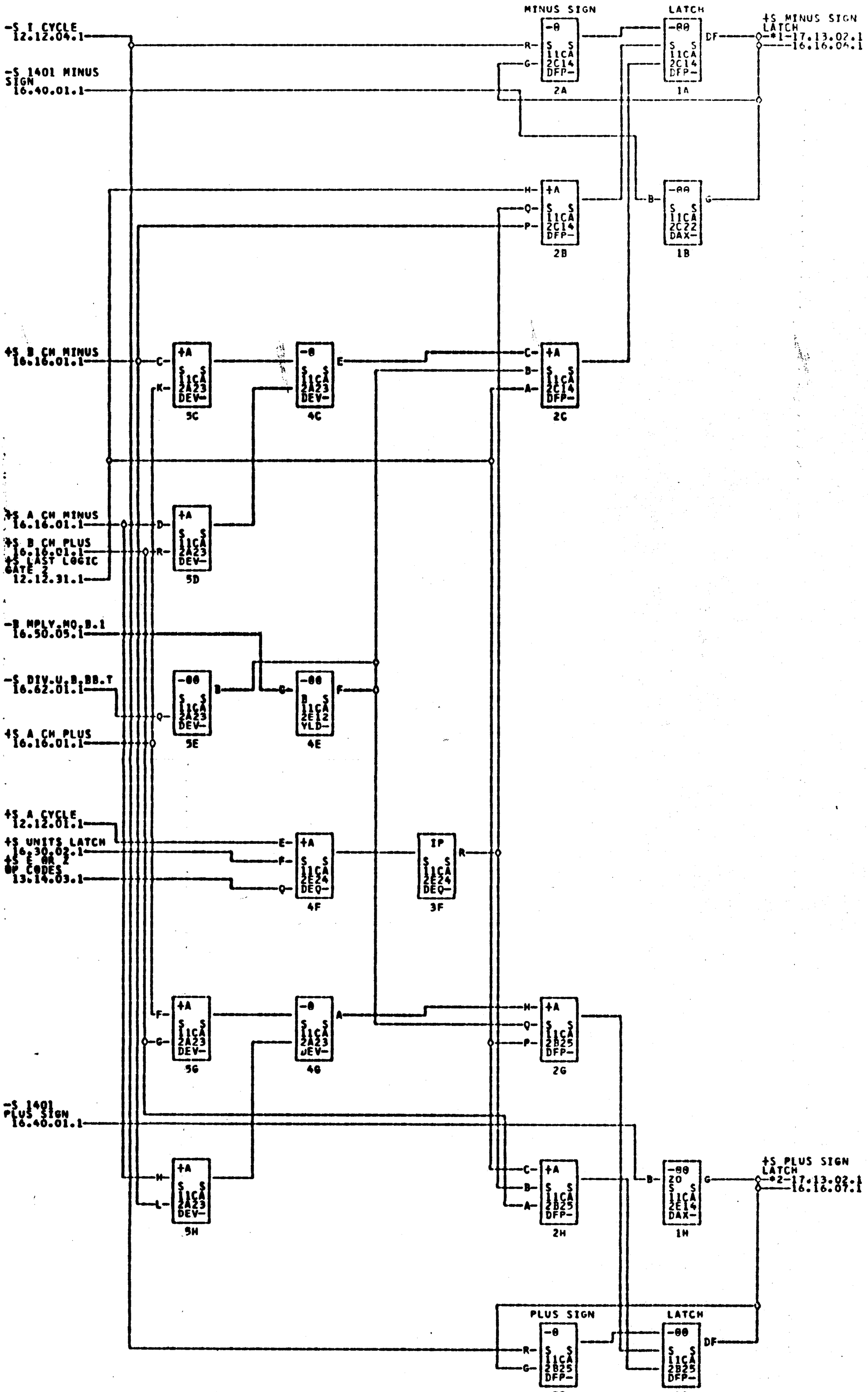
TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
A	06-13-62	251773									



COMMENTS

TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
A	06-13-62	251773									

A



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COMMENTS

TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
A	06-13-62	251773									

A

+B B CH MINUS 16.16-01.1
+B USE B CH SIGN 16.40.03.1
F, E → 4A (+A; B B 11CA 2GIS DMN-)
4A → 3B (+0; B B 11CA 2GIS DMN-) C
C → -B B CH MINHINV PLUS SIGN GATED *2-15.50.10.1, *2-15.50.05.1

+B B CH PLUS 16.16-01.1
+B USE INV B CH SIGN 16.40.03.1
M, D → 4C (+A; B B 11CA 2GIS DMN-)
4C → 3B

-B B CH PLU+INV MIN SIGN GATED 16.16.07.1
P, Q → 2D (-0; B B 11CA 2HI5 DMS-)
2D B → 1D (I; B B 11CA 2H16 DMU-) B
1D → -B B MN+IN PL+ PL+INV MN GATED *1-15.50.06.1

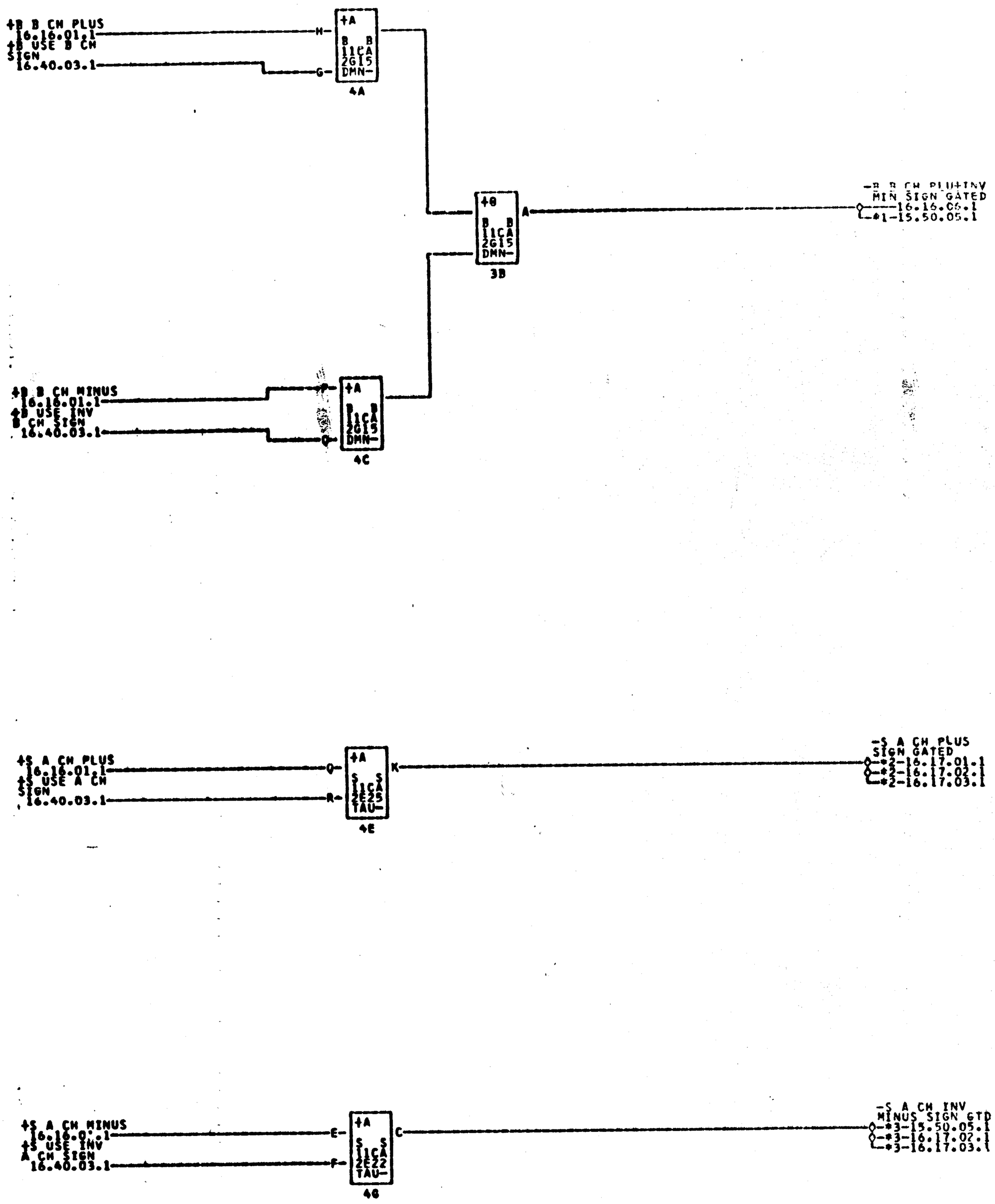
+S A CH MINUS 16.16-01.1
+S USE A CH SIGN 16.40.03.1
Q, R → 4E (+A; S S 11CA 2E26 TAU-)
4E K → -S A CH MINUS SIGN GATED *3-16.17.01.1, *3-16.17.02.1, *3-16.17.03.1

+S A CH PLUS 16.16.01.1
+S USE INV A CH SIGN 16.40.03.1
B, D → 4B (+A; S S 11CA 2E26 TAU-)
4B G → -S A CH INV PLUS SIGN GATED *4-16.17.01.1, *4-16.17.02.1, *4-16.17.03.1

+S MINUS SIGN LATCH 16.16.04.1
+S USE SIGN LATCH 16.40.03.1
B, D → 4I (+A; S S 11CA 2E25 TAU-)
4I G → -S MINUS SIGN GATED *5-16.17.01.1, *5-16.17.02.1, *5-16.17.03.1

*1—11C2E02L—11C3G26L *2—11C2E02K—11C3G26K *3—11C2E02H—11C3G26H *4—11C2E02G—11C3G26G *5—11C2E02F—11C3G26F

COMMENTS	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
	A	06-13-62	251773									



COMMENTS

TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
A	06-13-62	251773									

A

-S ZONE ADDER A,NOT B,NOT C 1 14.18.06.1
-S ZONE ADDER A,NOT B,NOT C 2 14.18.06.1
P
Q
-00 ZO S S 1 1CA 3B20 DAW-
D
3B
+S ASM CH A BIT ADDER ZONES 15.50.05.1

-S ZONE ADDER A,B,C 2 14.18.06.1
-S ZONE ADDER A,B,C 1 14.18.06.1
A
H
-00 ZO S S 1 1CA 3C21 TAU-
P
3C

-S A CH PLUS SIGN GATED 16.16.07.1
Q
-00 S S 1 1CA 3C24 DES-
C
3D

-S ZONE ADDER NOT A,B,NOT C 1 14.18.06.1
-S ZONE ADDER NOT A,NOT B,C 1 14.18.06.1
-S ZONE ADDER NOT A,B,NOT C 2 14.18.06.1
F
G
H
-00 ZO S S 1 1CA 3B20 DAW-
C
3E
+S ASM CH NOT A BIT+ADDER ZONES 15.50.05.1

-S ZONE ADDER NOT A,NOT B,C 2 14.18.06.1
-S MINUS SIGN GATED 16.16.06.1
-S A CH INV PLUS SIGN GATED 16.16.06.1
F
G
H
-00 S S 1 1CA 3F15 DAC-
CL
3F

-S A CH MINUS SIGN GATED 16.16.06.1
A
-00 S S 1 1CA LJ 3K26 TFY-
B
3G

1

COMMENTS

TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
A	06-13-62	251773									

A

-S ZONE ADDER NOT A.B.NOT C 1 14.18.06.1
-S ZONE ADDER NOT A.B.NOT C 2 14.18.06.1
-S ZONE ADDER A.B.C 1 14.18.06.1
P-
Q-
R-
-00 20 S S 1 1CA 3B22 DAW-
3B
D
+S ASM CH B BIT # ADDER ZONES 15.50.06.1

-S ZONE ADDER A.B.C 2 14.18.06.1

-S A CH MINUS SIGN GATED 16.16.06.1
-S A CH INV PLUS SIGN GATED 16.16.06.1
-S MINUS SIGN GATED 16.16.06.1
A-
B-
K-
-00 S S 1 1CA 3B23 DAW-
3D
E

-S A CH PLUS SIGN GATED 16.16.07.1
E-
F-
-00 S S 1 1CA 3A07 DAX-
3E
C

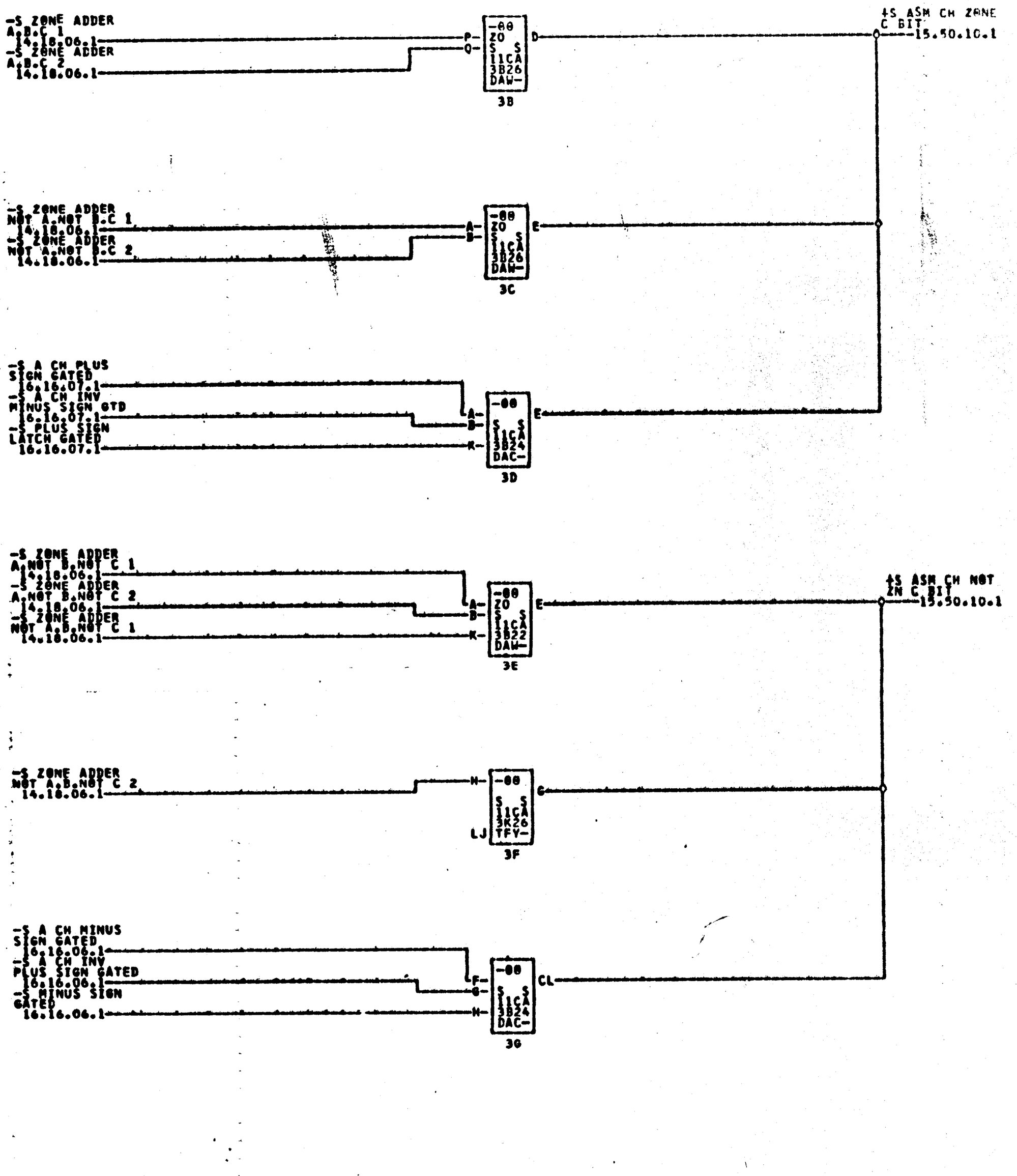
-S A CH INV MINUS SIGN GTD 16.16.07.1
-S PLUS SIGN LATCH GATED 16.16.07.1
P-
Q-
-00 S S 1 1CA 3B21 DFE-
3F
R

-S ZONE ADDER A.NOT B.NOT C 1 14.18.06.1
-S ZONE ADDER A.NOT B.NOT C 2 14.18.06.1
F-
G-
-00 20 S S 1 1CA 3B22 DAW-
3G
CL
+S ADDER ZONES NOT B BIT 15.50.06.1

1

COMMENTS

TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
A	06-13-62	251773									



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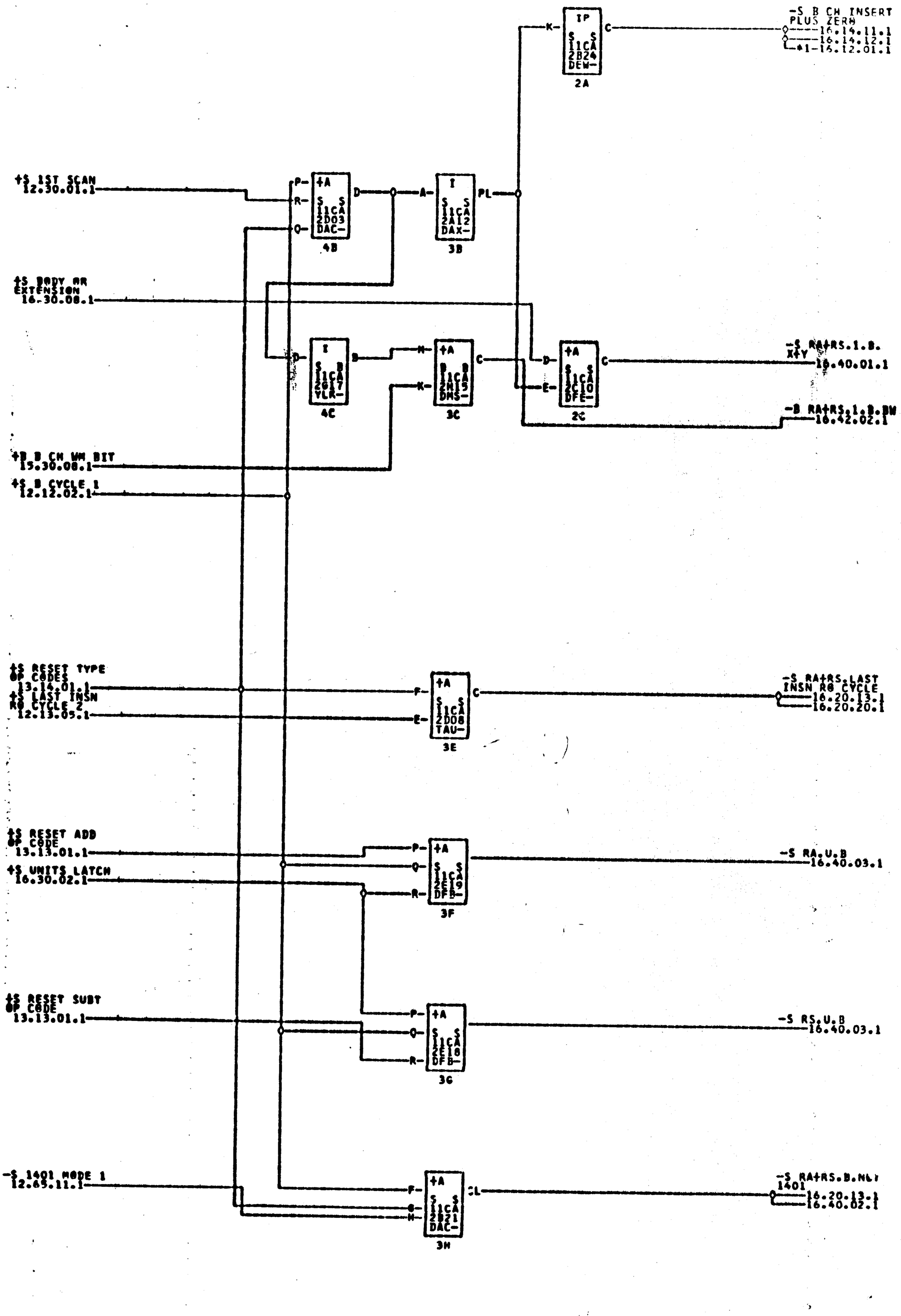
COMMENTS	AG	DATE	E.C.NO.	AG	DATE	E.C.NO.	AG	DATE	E.C.NO.	AG	DATE	E.C.NO.
	A	06-13-62	251773									



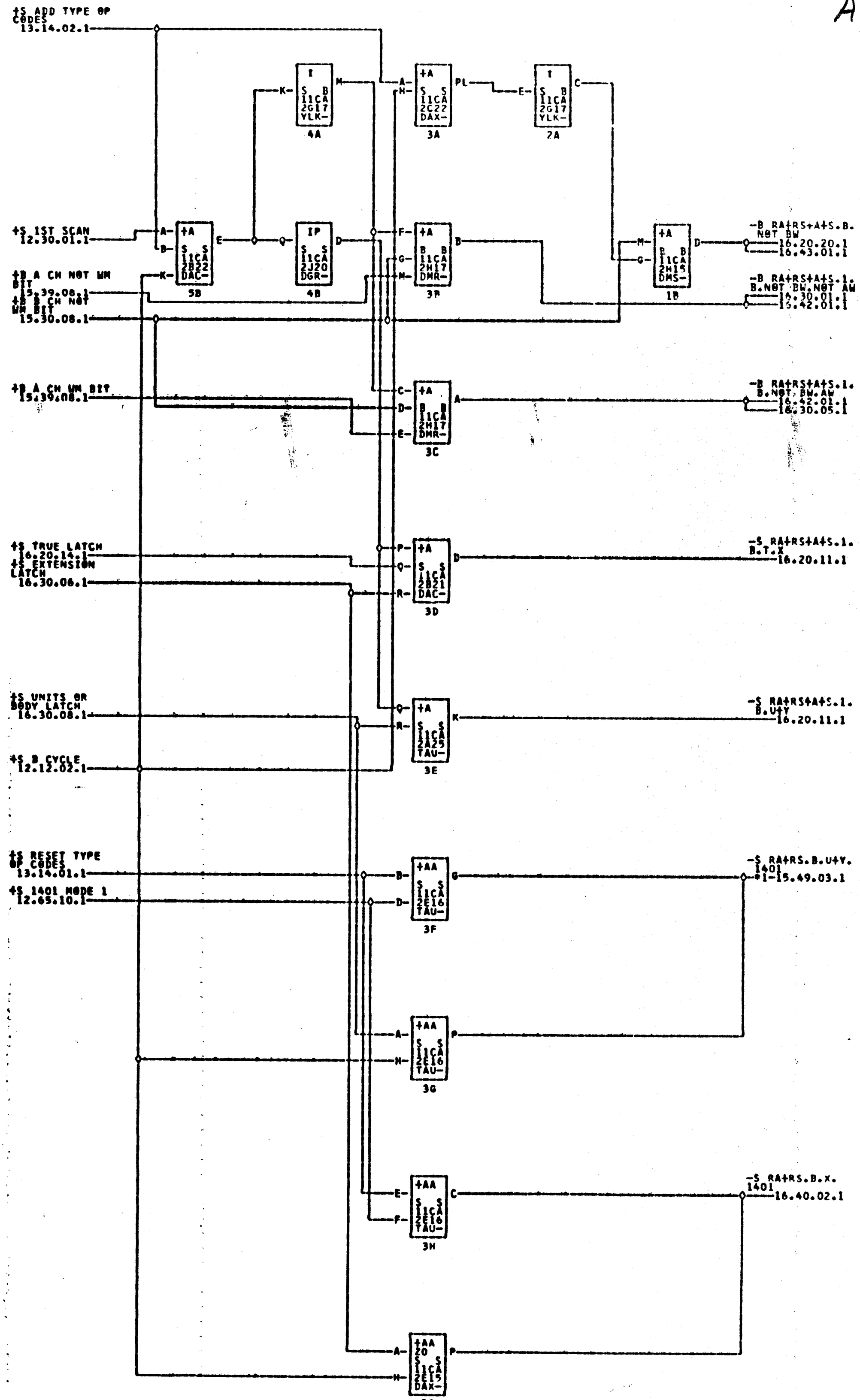
•1—11C2Y13B—11C3Z25B

1

COMMENTS

TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
A	06-13-62	251773									

A



#1—11C2218D—11C4Y18D—11C4602Q—11C3G27Q

1

COMMENTS

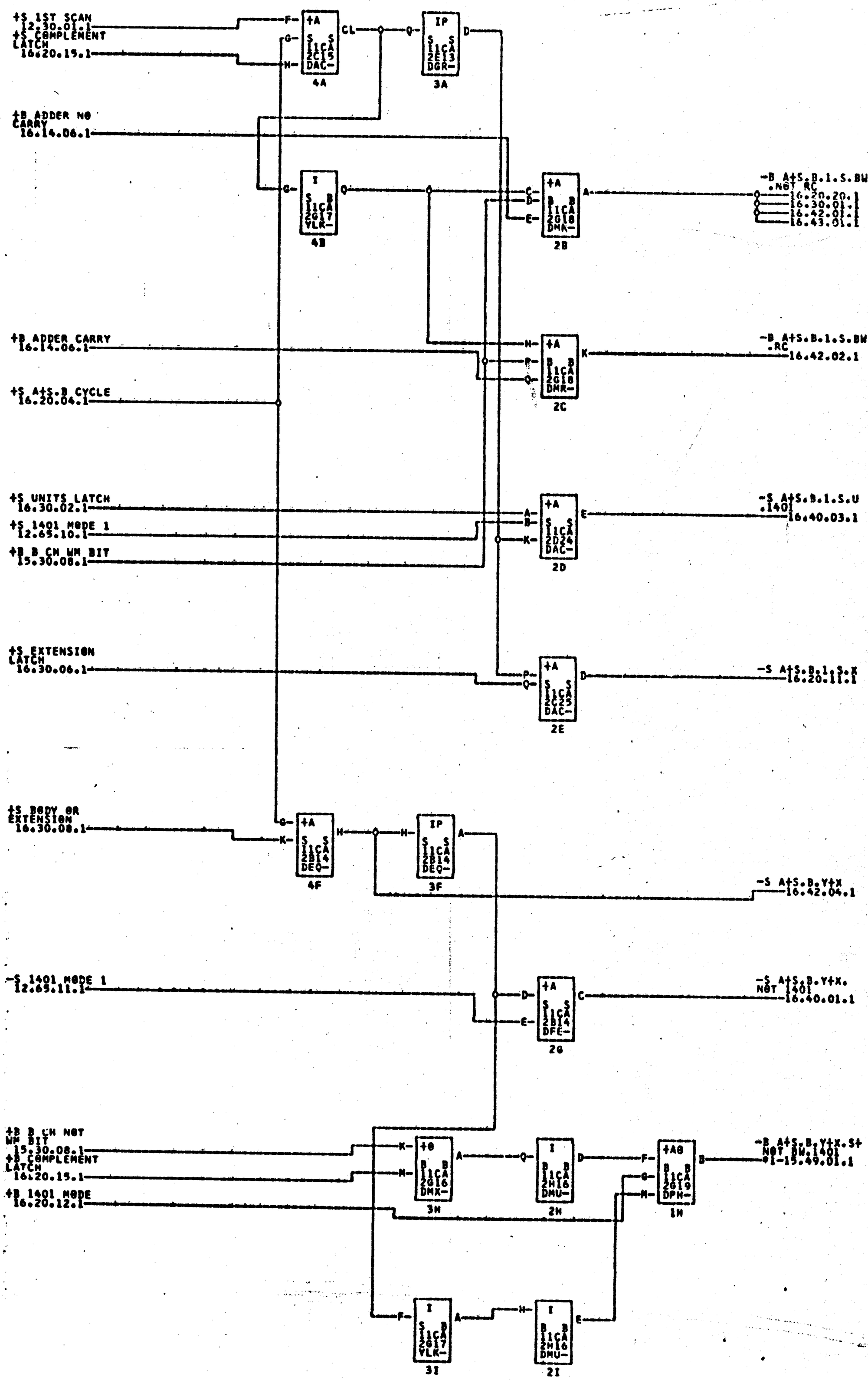
TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
A	06-13-62	251773									

A

+S ADD OR SUBT OP CODES 13.14.01.1
+S B CYCLE 12.12.02.1
5A
4A
+S A+S.B CYCLE 16.42.04.1, 16.20.05.1, 16.20.06.1
3B
-S A+S.B CYCLE 16.20.13.1, 16.40.02.1, *2-14.18.07.1, 16.14.11.1, 16.14.12.1
+S 1ST SCAN 12.30.01.1
+S TRUE LATCH 16.20.14.1
3C
2C
+B ADDER NO CARRY 16.14.06.1
4D
3D
-B A+S.B.1.T.BW .NOT RC 16.42.02.1
+B ADDER CARRY 16.14.06.1
+B B CH WM BIT 15.30.08.1
3E
-B A+S.B.1.T.BW .RC 16.42.02.1, 16.45.02.1
+S UNITS LATCH 16.30.02.1
+S B CH WM BIT 2 15.30.08.1
1F
-S A+S.B.1.T.U .1401 16.40.01.1
+S BODY OR EXTENSION 16.30.08.1
1G
-S A+S.B.1.T.BW .Y+X.1401 *1-14.18.07.1
+S 1401 MODE 1 12.65.10.1
1H

*1—11C2D02D—11C1D27D—11C1Z16B—11C3Y16B *2—11C2D02C—11C1D27C—11C1Z16A—11C3Y16A

COMMENTS	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
	A	06-13-62	251773									



+1—11C2A01N—11C3J27N

1

COMMENTS

TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
A	06-13-62	251773									

A

+S A+S.B CYCLE 16.20.04.1
+S 3RD SCAN 12.30.02.1
+A S S 11CA 2D06 TAU- 5B
K A I S S 11CA 2D06 TAU- 4B
PL E I S S 11CA 2E25 TAU- 3B
C G I S B 11CA 2H24 YLK- 2B
Q -S A+S.B.3 16.20.11.1

+B B CH NBT WM BIT 15.30.08.1
+A B B 11CA 2H15 DMS- 3C
A F E -B A+S.B.3.NBT BW 16.30.05.1 16.43.01.1 16.42.01.1

+B B CH WM BIT 15.30.08.1
+A B B 11CA 2H19 DMS- 3E
P Q B -B A+S.B.3.BW 16.42.02.1

+S UNITS LATCH 16.30.02.1
+A S S 11CA 2J05 TAU- 3G
A H PL -S A+S.B.3.U 16.40.03.1 16.42.04.1

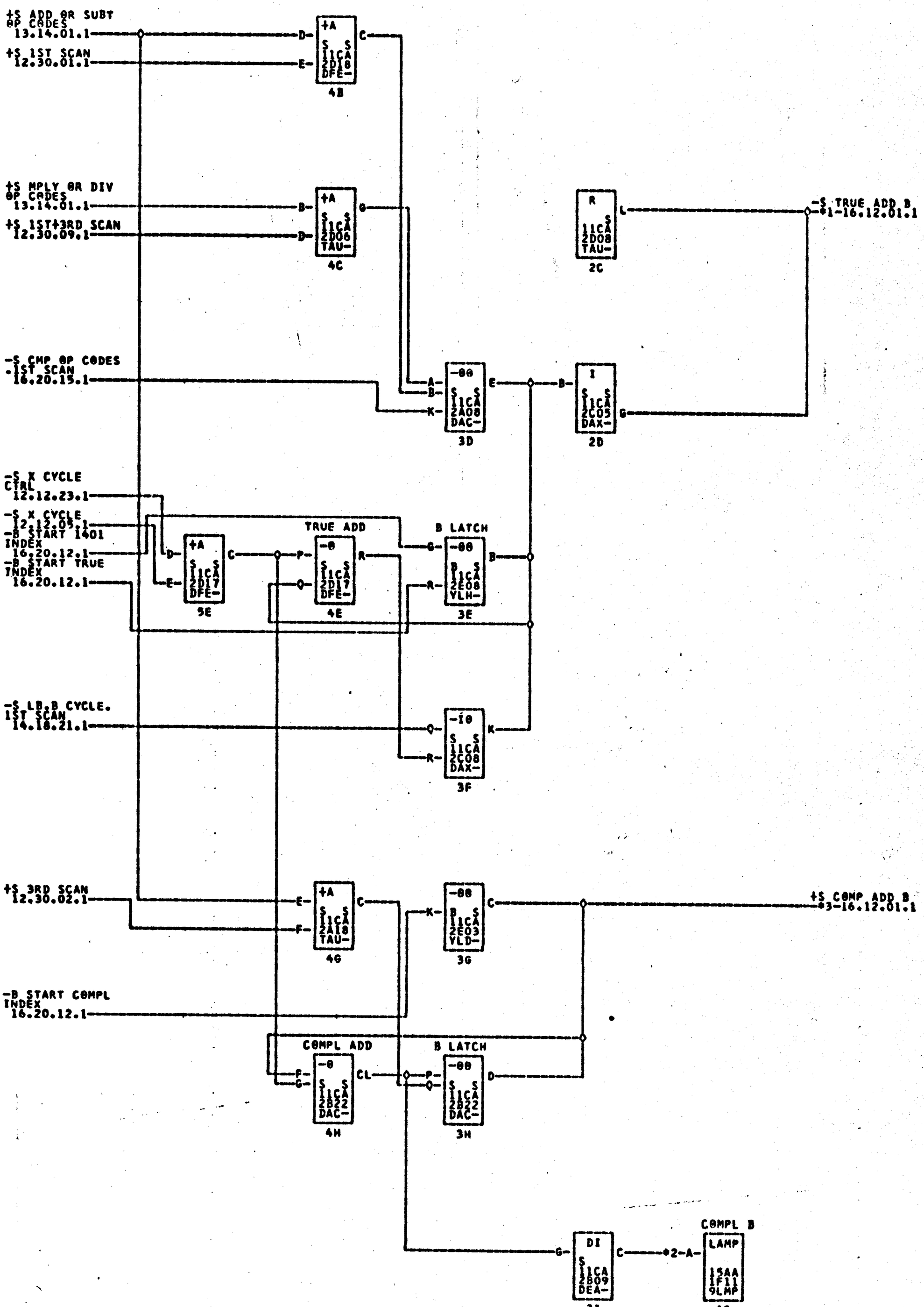
+S 1ST SCAN 12.30.01.1
+AA S S 11CA 2C25 DAC- 4H
F G H CL -S A+S.B.U,1 .NBT 1401 16.40.01.1

-S 1401 MODE 1 12.65.11.1
+AA 20 S S 11CA 2E14 DAX- 4I
E C

1

COMMENTS

TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
A	06-13-62	251773									

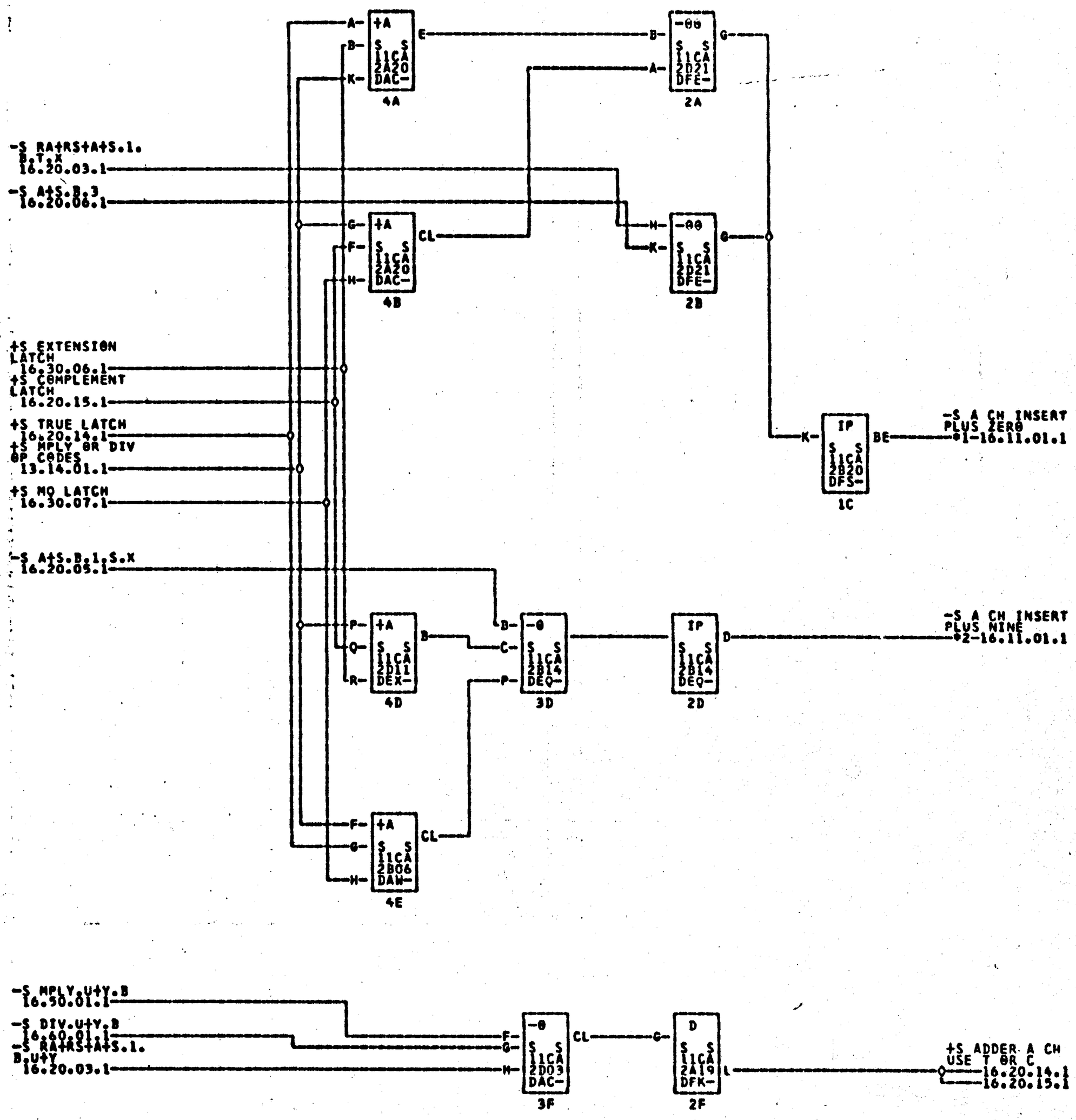


*1—11C2Y12A—11C3Z12A *2—11C2A27R—11C7L51R—15A4A19D—15A4A20D *3—11C2Y16B—11C3Z20B

COMMENTS

TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
A	06-13-62	251773									

A



*1—11C2Y12B—11C3Z12B *2—11C2Y12C—11C3Z12C

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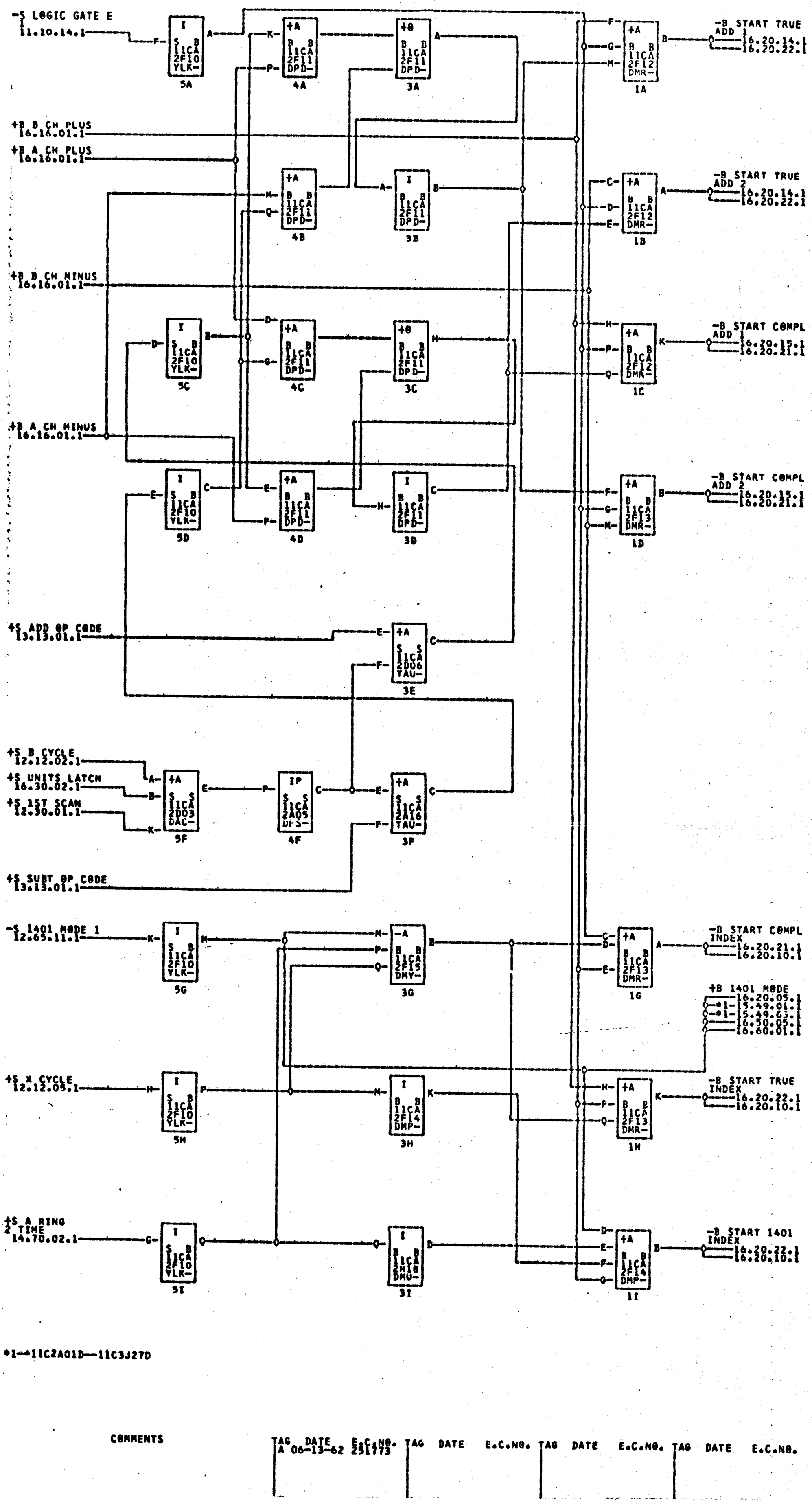
COMMENTS

TAG	DATE	E.C.N0.	TAG	DATE	E.C.N0.	TAG	DATE	E.C.N0.	TAG	DATE	E.C.N0.
A	06-13-62	251773									

A



*1—11C2A01D—11C3J27D

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COMMENTS

TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
A	06-13-62	251773									

A

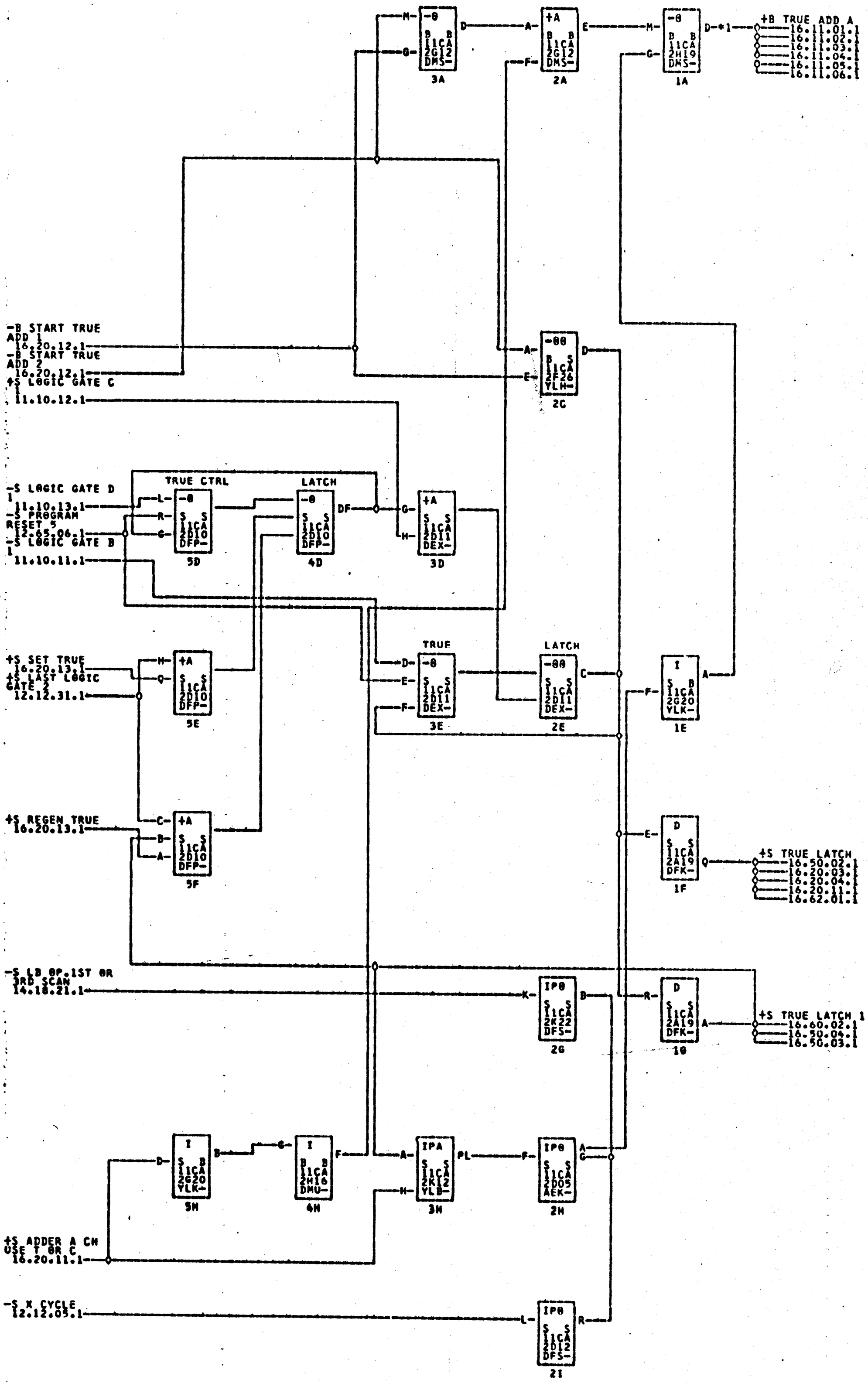
-S MPLY.LAST INSN R0 CYCLE 16.50.05.1
-S RA+RS.LAST INSN R0 CYCLE 16.20.02.1
-S LB 0P LIR0C 14.18.21.1
-B DIV.X.B.S NOT RC 16.60.02.1
-B MPLY.MQ.B.B0 16.50.04.1
-S A CYCLE 12.12.01.1
-B MPLY.MQ.B. B1-4 16.50.05.1
-S MPLY.N.C 16.50.01.1
-S LB.B CYCLE 1ST SCAN 14.18.21.1
-S RA+RS.B.NOT 1401 16.20.02.1
-B DIV.X.B 16.60.02.1
-B MPLY.MQ.B.S. B9.BW 16.50.05.1
-B MPLY.MQ.B. B5-8 16.50.05.1
-B MPLY.MQ.B.S. B9.NOT BW 16.50.05.1
-B DIV.X.B.S.RC 16.60.02.1
-B MPLY.MQ.B.T. B9 16.50.04.1
-S DIV.LAST INSN R0 CYCLE 16.60.01.1
-S DIV.2.D 16.60.02.1
-S MPLY.U+Y+X.B 16.50.01.1
-S MPLY.1+N+3.D 16.5G.03.1
-S DIV.U+Y.B 16.60.01.1
-S A+S.B CYCLE 16.20.04.1
-S DIV.MQ.B 16.60.01.1

7A -00 S S 1 1CA 2C11 DAX-
1A -00 S S 1 1CA 2C11 DAX-
3B -00 S S 1 1CA 2C20 DFE-
1B -00 B S 1 1CA 2E07 YLJ-
3C -00 S S 1 1CA 2D07 DAX-
1C -00 B S 1 1CA 2E03 YLD-
3D -00 S S 1 1CA 2C20 DFE-
5E -00 B S 1 1CA 2E03 YLD-
3E -00 B S 1 1CA 2E03 YLD-
5F -00 B S 1 1CA 2E07 YLJ-
5G -00 S S 1 1CA 2D07 DAX-
3G -00 S S 1 1CA 2B23 DFE-
3H -00 S S 1 1CA 2B23 DFE-

+S SET TRUE 16.20.14.1
+S REGEN TRUE 16.20.14.1
+S SET COMPL CTRL LATCH 16.20.15.1
+S REGEN COMPL 16.20.15.1

COMMENTS

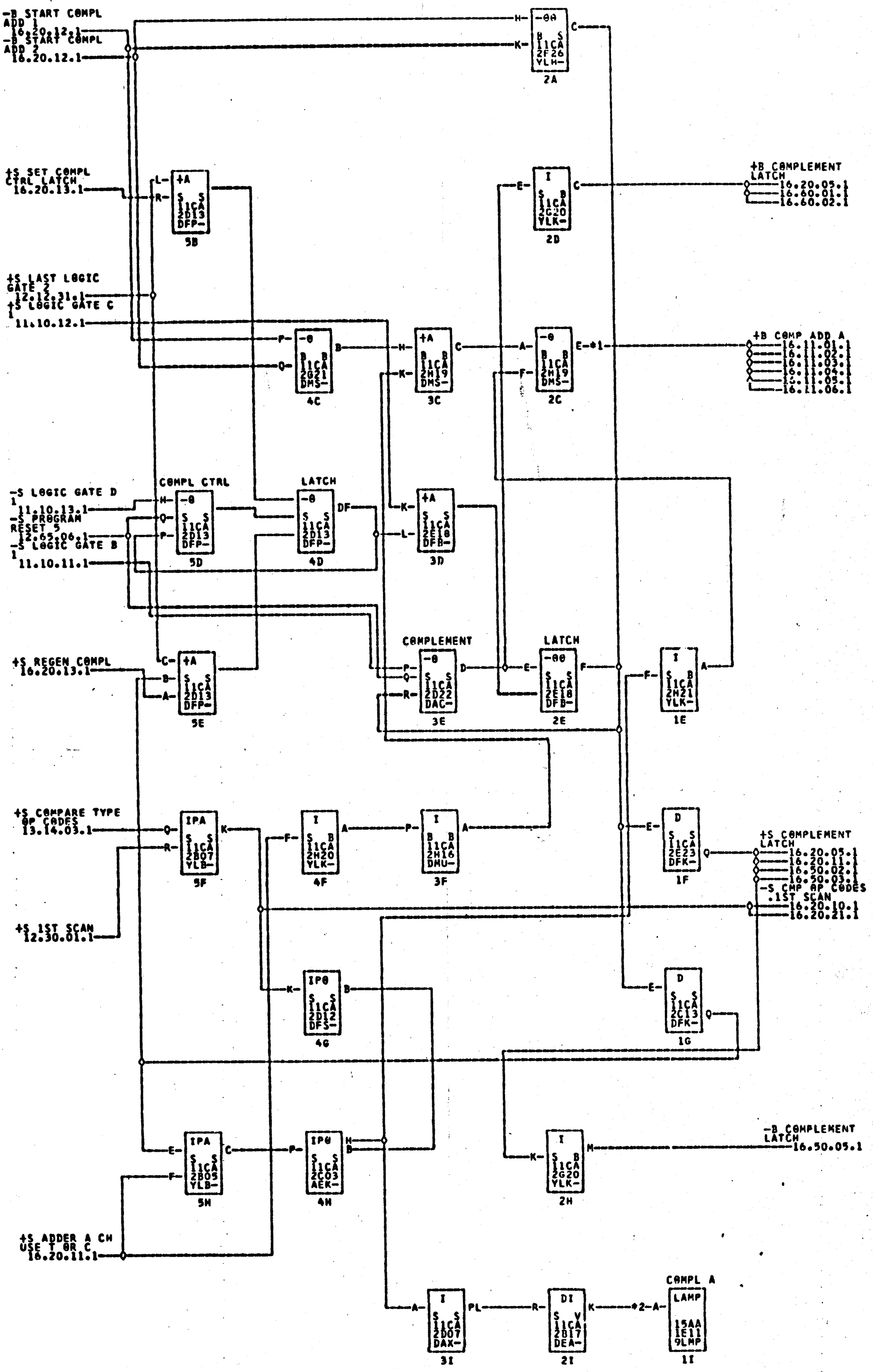
TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
A	06-13-62	251773									



1

COMMENTS

TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
A	06-13-62	251773									



COMMENTS

TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
A	06-13-62	251773									

A

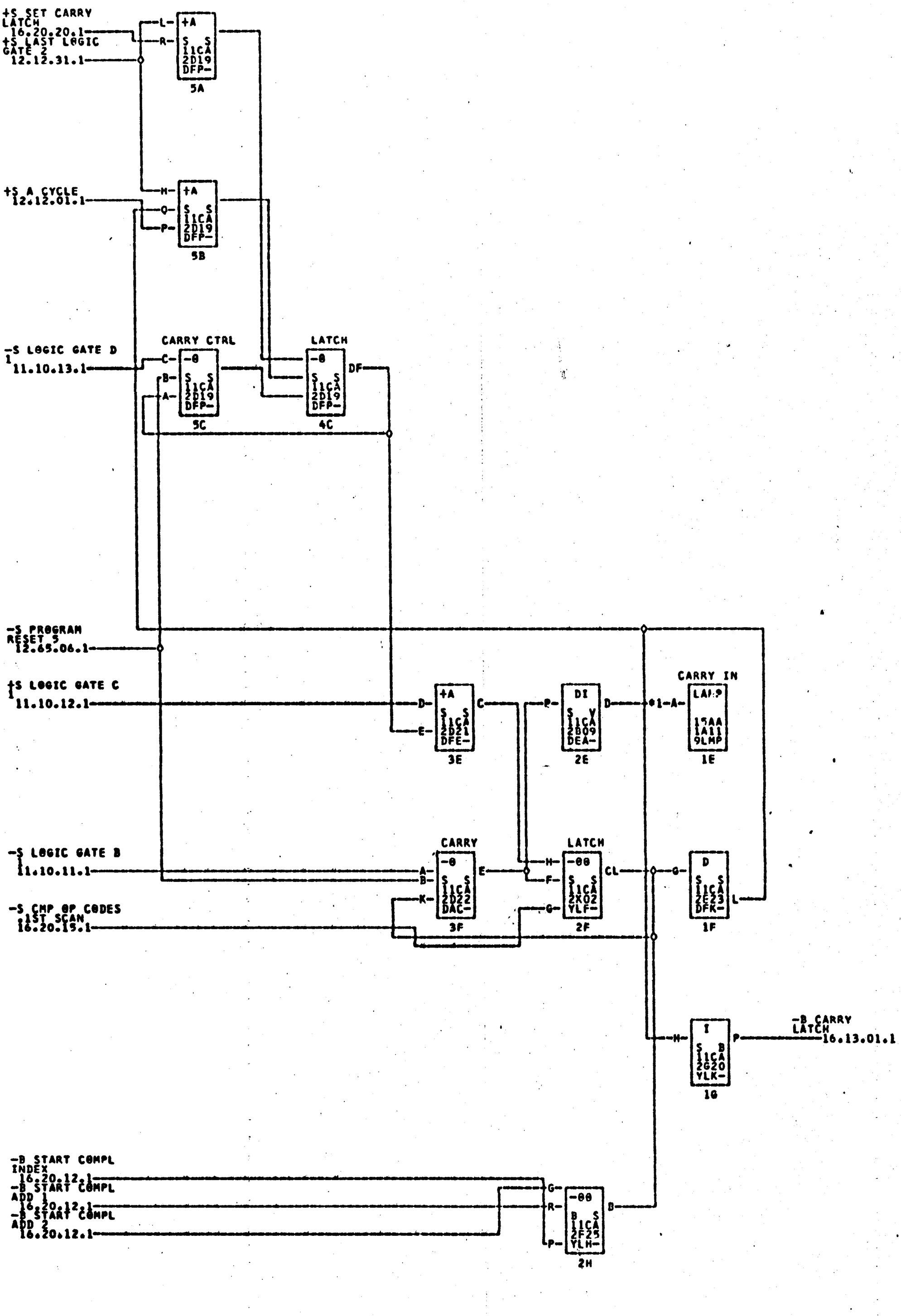
-S MPLY.X.B.T 16.50.02.1
-S MPLY.D.T 16.50.03.1
-B MPLY.MQ.B. B1-4 16.50.05.1
-B MPLY.MQ.B.B0 16.50.04.1
-S LB OP.LIROC 14.18.21.1
-S MPLY.X.B.S 16.50.02.1
-S MPLY.D.S 16.50.03.1
-B MPLY.MQ.B. B5-8 16.50.05.1
-S RA+RS.LAST INSN RO CYCLE 16.20.02.1
-S DIV.LAST INSN RO CYCLE 16.60.01.1
-B DIV.MQ.B.S. NOT RC 16.60.01.1
-S DIV.2.D 16.60.02.1
-B A+S.B.1.S.BW .NOT RC 16.20.05.1
-B MPLY.MQ.B.T. B9 16.50.04.1
+S ADDER CARRY 16.14.06.1
+S ADDER NO CARRY 16.14.06.1
-S MPLY.U+Y.B 16.50.01.1
-S DIV.U+Y.B 16.60.01.1
-B DIV.X.B 16.60.02.1
-S X CYCLE 12.12.05.1
-S LB.B CYCLE. 1ST SCAN 14.18.21.1
-B RA+RS+A+S.B. NOT BW 16.20.03.1

4A -00 B S 11CA 2F25 YLH-
1A -00 S S 11CA 2D22 DAC-
1C -00 Z0 S S 11CA 2E14 DAX-
4D -00 B S 11CA 2F26 YLH-
3D -00 S S 11CA 2D18 DFE-
3E -00 S S 11CA 2D18 DFE-
4F +A S S 11CA 2D14 DFE-
3F -00 B S 11CA 2E08 YLH-
4G +A S S 11CA 2D14 DFE-
5H -00 S S 11CA 2D14 DFE-
5I -00 S S 11CA 2D14 DFE-
4I -00 B S 11CA 2F25 YLH-

+S SET NO CARRY 16.20.22.1
+S SET CARRY LATCH 16.20.21.1

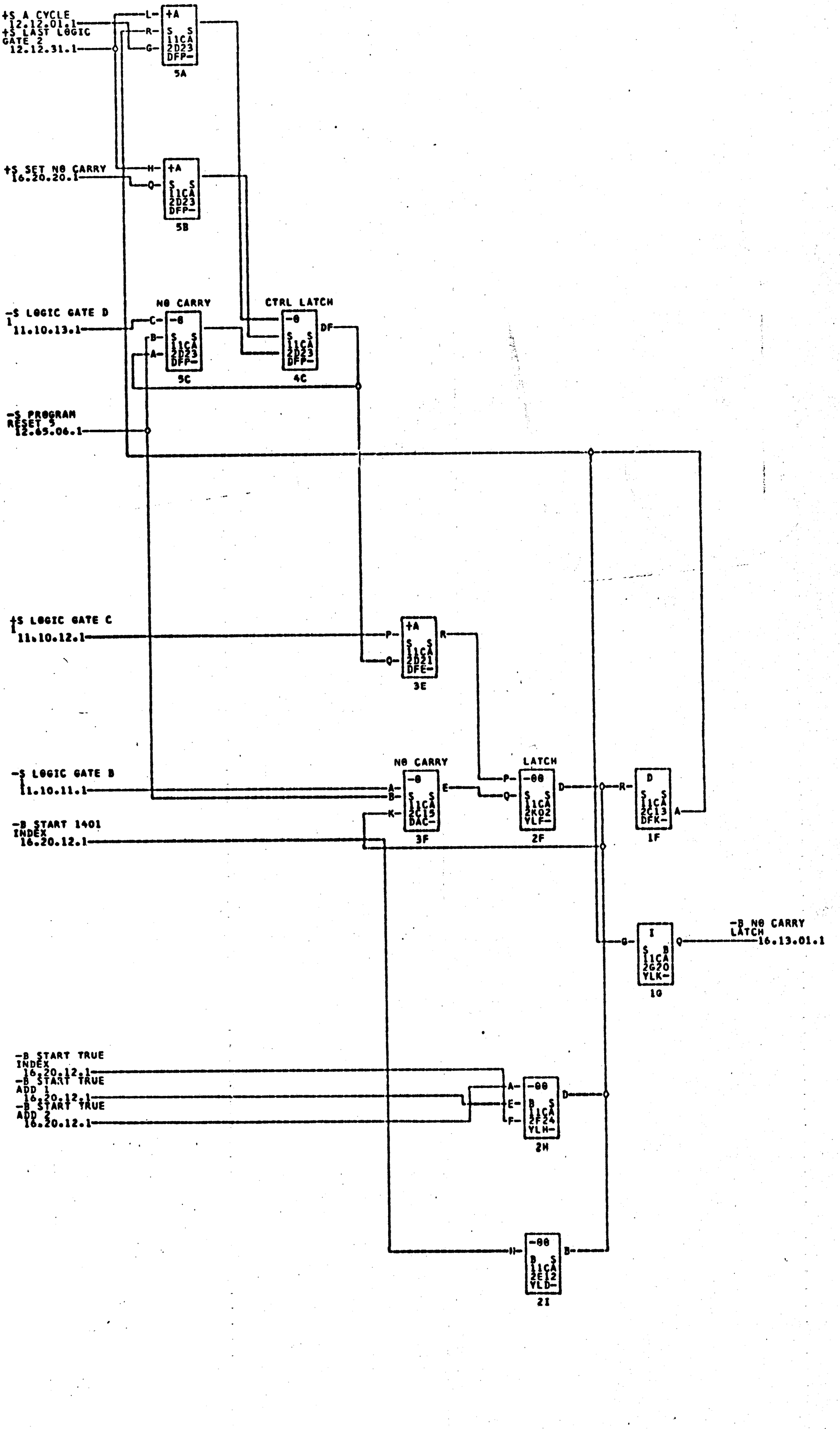
COMMENTS

TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
A	06-13-62	251773									



*1—11C2A27N—11C7L51N—15A4A19A—15A4A20A

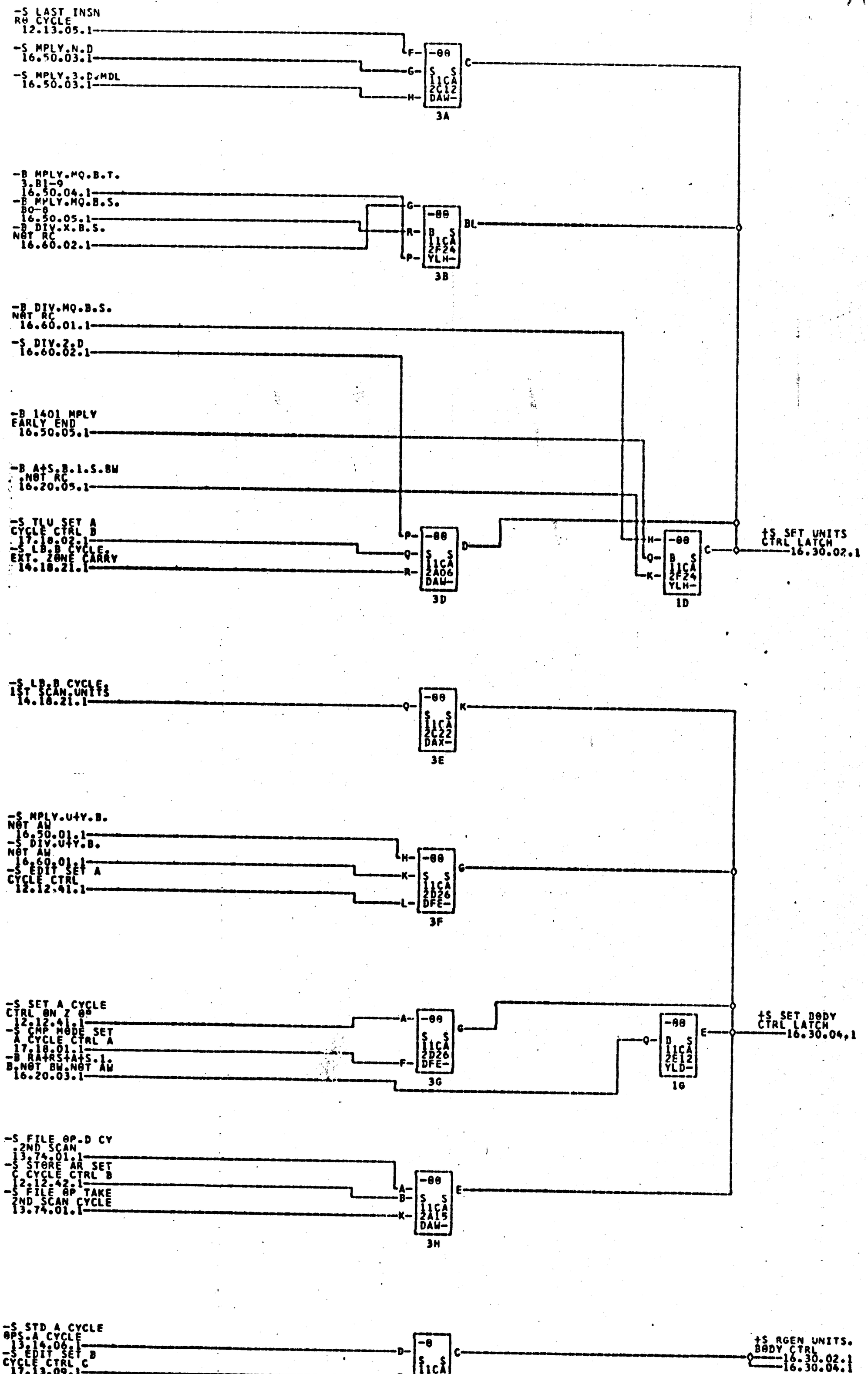
COMMENTS	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
	A	06-27-62	251773									



COMMENTS

TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
A	06-27-62	251773									

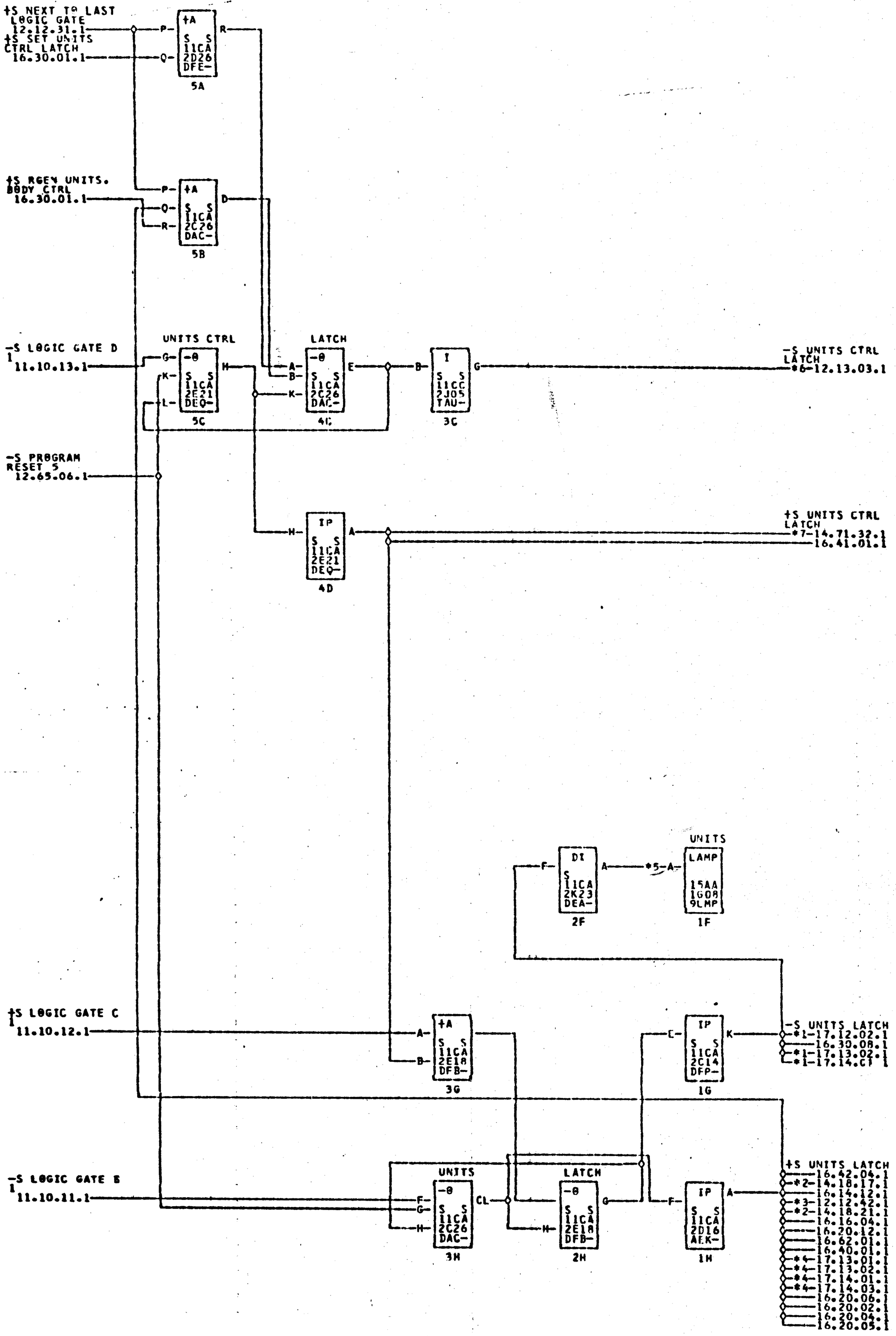
A



1

COMMENTS

TAG	DATE	E.C.NØ.	TAG	DATE	E.C.NØ.	TAG	DATE	E.C.NØ.	TAG	DATE	E.C.NØ.
A	06-13-62	251773									



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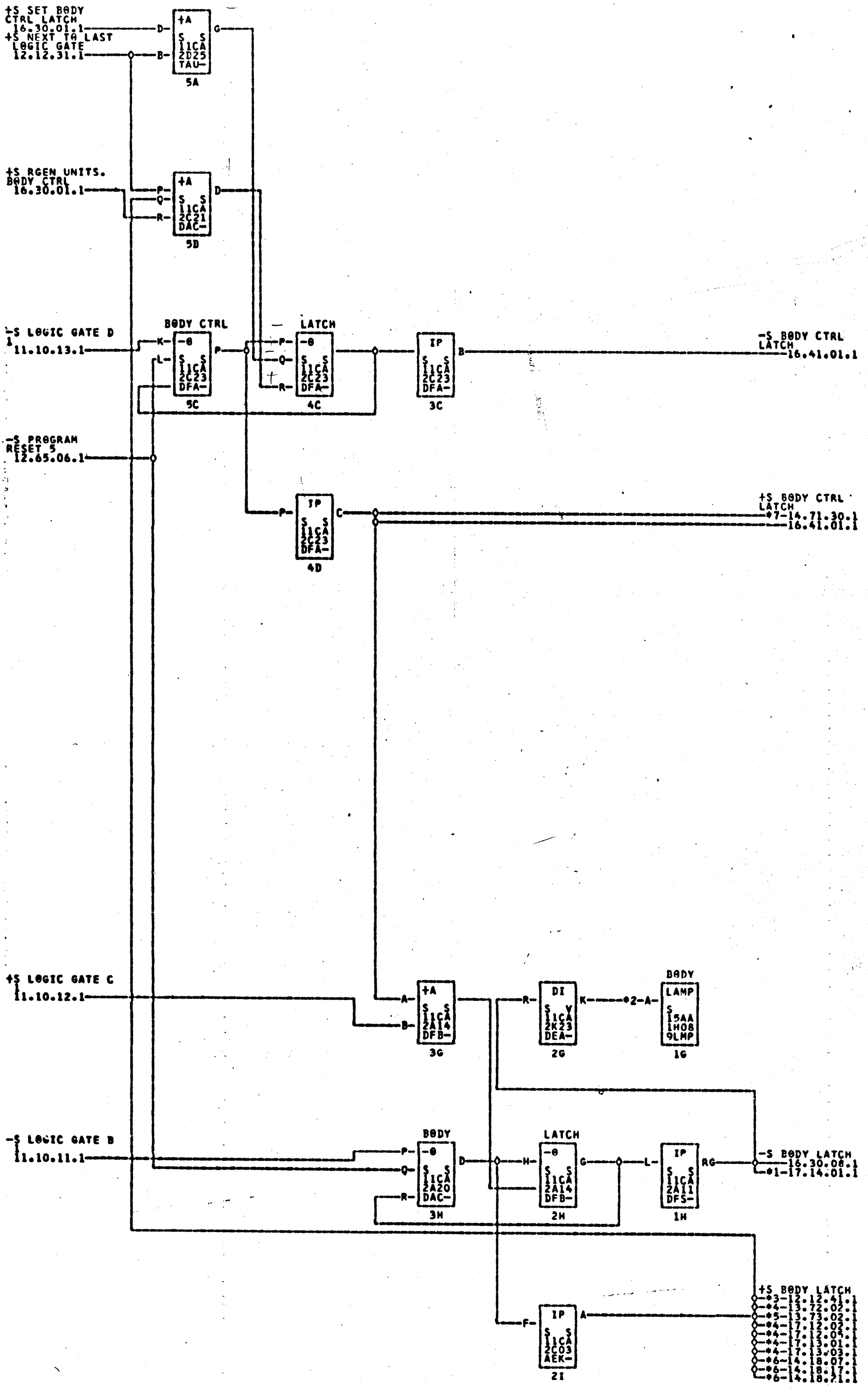
*4—11C2E28C—11D1E01C—11D1E28C—11D2E01C *5—11C2Z10B—11C4Y10B—11C4K26D—11C7L49M—15A4A21E—15A4A22E
*6—11C2H02L—11C1H27L *7—11C2F01F—11C1F28F

2

COMMENTS

TAG	DATE	E.C.NO.
A	06-13-62	251773
B	11-13-62	251849
C	02-06-63	252637
TAG	DATE	E.C.NO.



*1—11C2E28D—11D1E01D—11D1E28D—11D2E01D *2—11C2Z10C—11C4Y10C—11C4K26E—11C7L49E—15A4A21F—15A4A22F
*3—11C2F01D—11C1F28D *4—11C2E28E—11D1E01E—11D1E28E—11D2E01E
*5—11C2E28E—11D1E01E—11D1E28E—11D2E01E—11D2Z05A—11D4Y05A *6—11C2F01D—11C1F28D—11C1Z21C—11C3Y21C
*7—11C2F01C—11C1F28C

COMMENTS

TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
A	06-13-62	251773									

A

-S MPLY.U+Y.B.AW.1 16.50.01.1
-S MPLY.U+Y.B.AW.3 16.50.01.1
-S DIV.U+Y.B.AW 16.60.01.1
→ H, K, L — -00 S S 11CA 2C19 DFE- — 3A → G

-S EDIT SET B CYCLE CTRL A 12.12.44.1
-S EDIT SKID CYCLE 17.13.15.1
-B RA+RS+A+S.1.B.NOT BW.AW 16.20.03.1
→ A, F — -00 S S 11CA 2C19 DFE- — 3B → G

-S TLU SET B CYCLE CTRL 17.18.02.1
-S MPLY.N.C 16.50.01.1
-B A+S.B.3.NOT BW 16.20.06.1
→ A, K — -00 S S 11CA 2A06 DAW- — 3C → E
→ A, E — -00 B S 11CA 2E06 YLH- — 2C → D

D → +S SET EXTN CTRL LATCH 16.30.06.1

-S MPLY.X.B.NOT MDL 16.50.02.1
-S MPLY.1+3.D.NOT MDL 16.50.03.1
→ H, L — -00 S S 11CA 2C18 DFE- — 3D → G

-B DIV.X.B.S.RC 16.60.02.1

-S DIV.X.B.T.MDL 16.60.02.1
-S EDIT SET B CYCLE CTRL B 17.13.08.1
→ B, F — -00 S S 11CA 2C18 DFE- — 3E → G
→ H — -00 B S 11CA 2E03 YLD- — 2E → B

B → +S SET MQ CTRL 16.30.07.1

-S EDIT SET B CYCLE CTRL D 17.13.09.1
-S EDIT SET B CYCLE CTRL E 12.12.44.1
→ E, F — -00 S S 11CA 2C22 DAX- — 3F → C

-S FILE GP TAKE EXTENSION CYCLE 13.74.01.1
-S LB.B CYCLE.BODY LATCH 14.18.21.1
→ Q, R — -10 S S 11CA 2C05 DAX- — 3G → K

-S STD A CYCLE OPS.A CYCLE 13.14.06.1
-S EDIT SET B CYCLE CTRL C 17.13.09.1
+S RGEN EXTN CTRL *STERLING 00.00.00.0
→ D, E — -0 S S 11CA 2C18 DFE- — 3H → C

C → +S RGEN EXT CTRL 16.30.06.1

-S EDIT SET B CYCLE CTRL E 17.13.09.1
-S EDIT SET B CYCLE CTRL F 17.13.09.1
→ Q, R — -00 S S 11CA 2C11 DAX- — 3I → K

K → (3F, 3G)

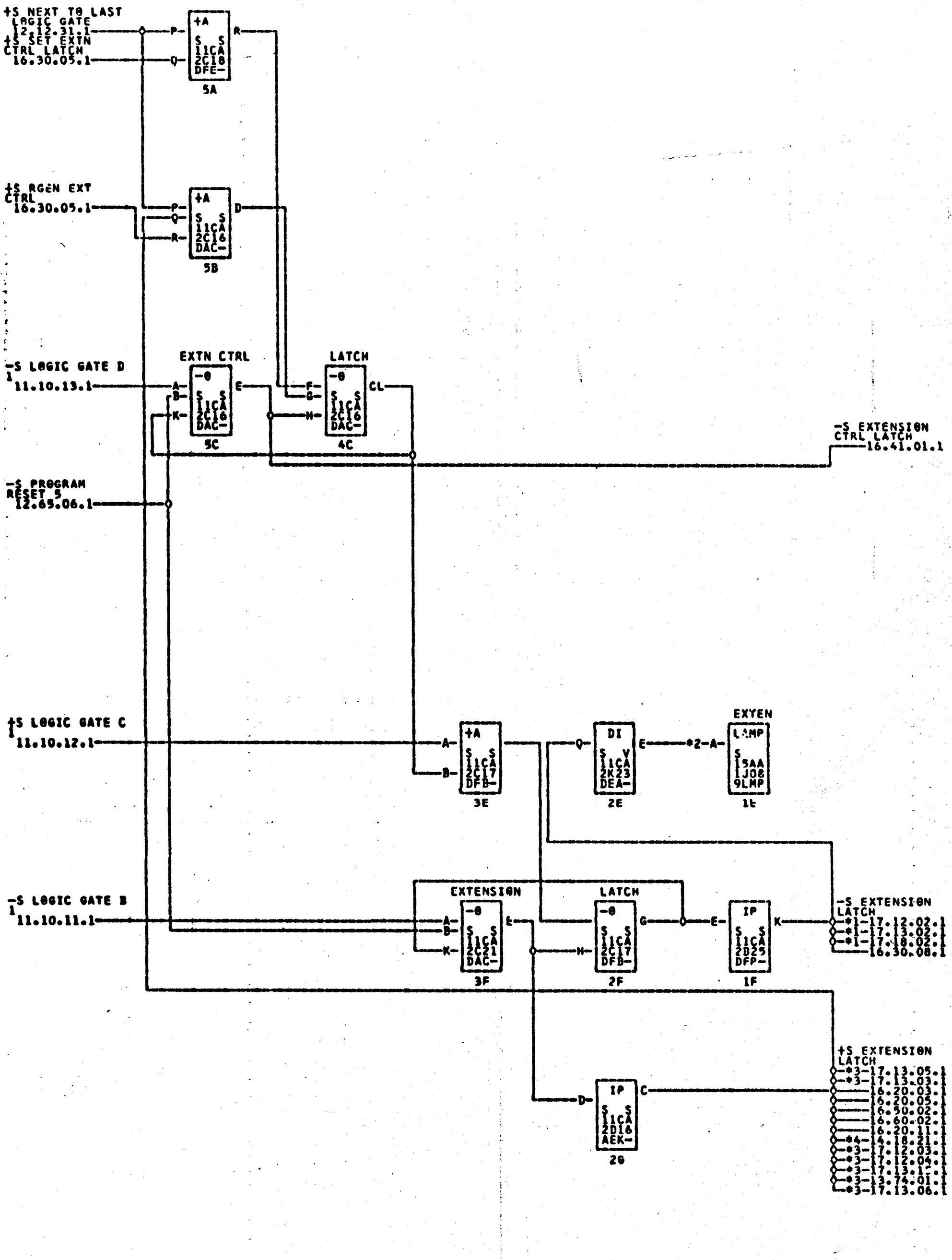
1

COMMENTS

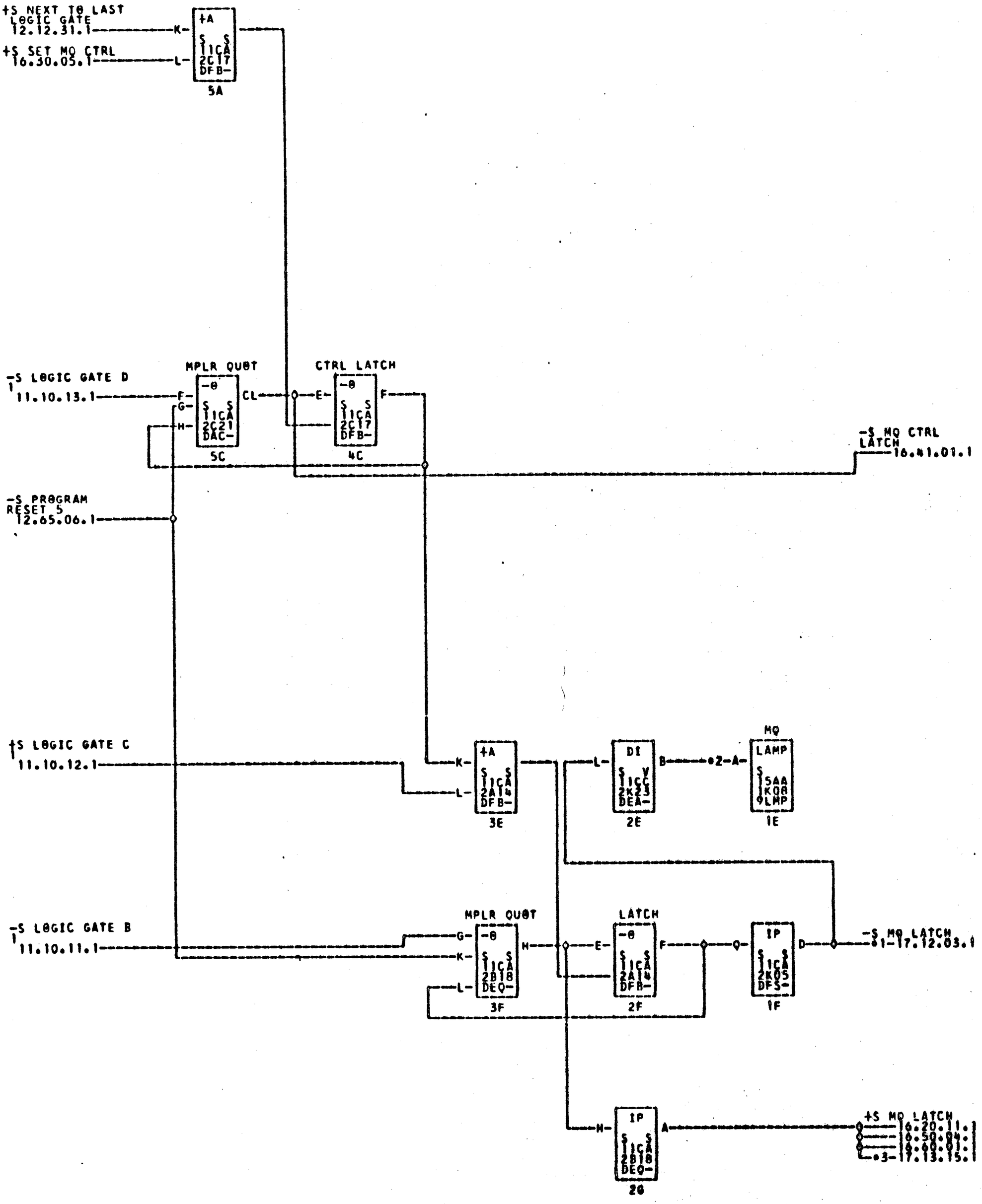
TAG	DATE	E.C.NO.
A	06-13-62	251773

TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.

A



COMMENTS	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
	A	06-13-62	251773									



COMMENTS	AG	DATE	E.C.NO.	AG	DATE	E.C.NO.	AG	DATE	E.C.NO.	AG	DATE	E.C.NO.
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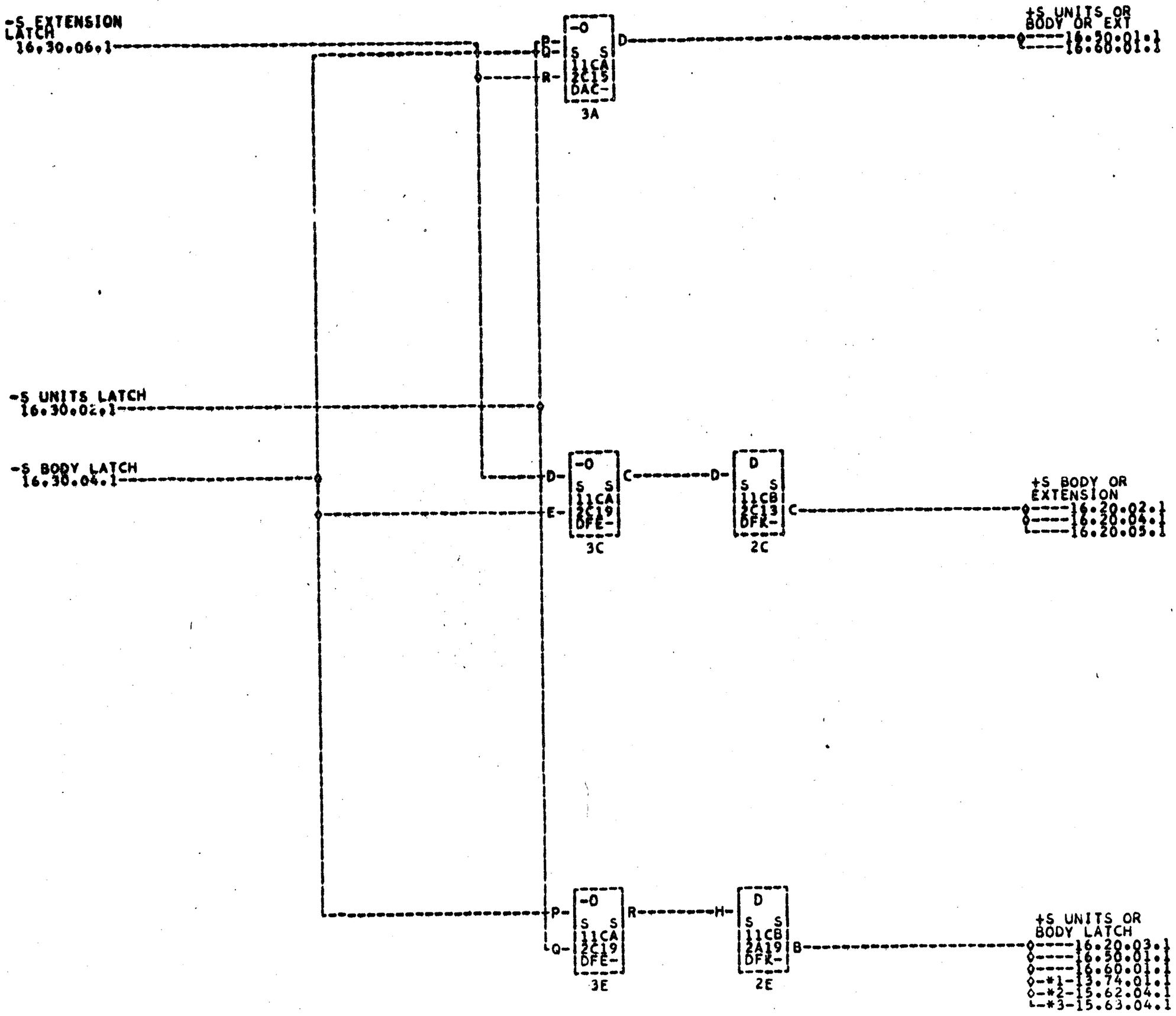

*1--11C2E37F--11D1E02F--11D1H28B--11D2H01B *2--11C2K26B--11C4A26B
*3--11C2K26B--11C4A26B--11C4G28H--11D3G01H--11D3H28N--11D4H01N

COMMENTS

TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
A	00-00-00	109426	B	06-15-61	249906						

A

-S MPLY.U+Y+X.B
•3
16.50.01.1

-S DIV.U+Y+X.B
16.60.01.1

-S DIV.2.D
16.60.02.1

-S DIV.MQ.B.NOT MDL
16.60.01.1

3A: -00 S S 11CA 2C12 DAW-
1A: -00 S S 11CA 2D07 DAX-

+S USE B CH ZONES *ARITH
*1-15.49.05.1

-S A+S.B.1.T.U
•1401
16.20.04.1

-S A+S.B.Y+X.
NOT 1401
16.20.05.1

-S A+S.B.U.1
•NOT 1401
16.20.06.1

3B: -0G S S 11CA 2B08 DAW-
2B: I S S 11CA 2C05 DAX-

+S B CH MINUS
16.16.01.1

+S A CH MINUS
16.16.01.1

+S UNITS LATCH
16.30.02.1

+S B CH PLUS
16.16.01.1

5C: +A ZO S S 11CA 2B03 DFB-
3C: +A ZO S S 11CA 2B03 DFB-
2C: -0 ZO S S 11CA 2B03 DFB-
1C: +A ZO S S 11CA 2K13 DAC-

-S 1401 MINUS SIGN
16.16.04.1

SIGN

-S DIV.LAST INSN RO CYCLE
16.60.01.1

+S B CYCLE
12.12.02.1

5D: -0 ZO S S 11CA 2A03 DFE-
4D: -0 ZO S S 11CA 2B03 DFB-
3D: +A ZO S S 11CA 2A03 DFE-
1D: +A ZO S S 11CA 2K13 DAC-

-S 1401 PLUS SIGN
16.16.04.1

+S DIV OP CODE
13.13.02.1

+S LOGIC GATE E
1
11.10.14.1

+S 1401 MODE 1
12.65.10.1

4E: +AA ZO S S 11CA 2K13 DAC-
3E: I ZO S S 11CA 2J03 DFE-

-S 1401 DIV EARLY END
16.62.01.1

+S B CH B BIT
15.30.06.1

4F: +AA S S 11CA 2B06 DAW-

-S MPLY.U+Y+X.B
•1
16.50.01.1

-S MPLY.MQ.B
16.50.04.1

-S RA+RS.1.B.
X+Y
16.20.02.1

2G: -00 S S 11CA 2C12 DAW-

+S USE NO ZONES *ARITH
*2-15.49.01.1

-S MPLY.N.C
16.50.01.1

5H: -0 ZO S S 11CA 2J03 DFE-
4H: -0 ZO S S 11CA 2B03 DFB-
2H: -00 S S 11CA 2E25 TAU-

+S LOGIC GATE C
1
11.10.12.1

+S MPLY DIV LAST LATCH
16.62.01.1

5I: +A ZO S S 11CA 2B03 DFB-

*1→11C2F01R—11C1F28R—11C1Z20D—11C3Y20D *2—11C2F01Q—11C1F28Q—11C1Z20C—11C3Y20C

1

COMMENTS

TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
A	06-13-62	251773									

ADDER NUMERIC CONT-ACC

1411

16.40.02.1

A

-S MPLY.U+Y+X.B .3
16.50.01.1

-B MPLY.MQ.B.T. B1-4
16.50.04.1

-B MPLY.MQ.B.S. B5-8
16.50.05.1

-S DIV.B
16.60.02.1

-S A+S.B CYCLE
16.20.04.1

-S MA+RS.B.NOT 1401
16.20.02.1

-S X CYCLE.NOT CR DISABLE
12.12.05.1

-S LB.B CYCLE. 1ST SCAN
14.18.21.1

-B MPLY.MQ.B.S. B9.NOT ZERO BAL
16.50.05.1

-B MPLY.MQ.B.T. B9.*
16.50.04.1

-B MPLY.MQ.B.T. B5-8
16.50.04.1

-B MPLY.MQ.B.S. B1-4
16.50.05.1

-S DIV.2.D
16.60.02.1

-S MPLY.U+Y+X.B .1
16.50.01.1

-S MPLY.N+1+2+ 3.D
16.50.03.1

-B MPLY.MQ.B.BO .*
16.50.04.1

-B MPLY.MQ.B.S. B9.ZERO BAL
16.50.05.1

-S RA+RS.B.X. 1401
16.20.03.1

3A -00 S S 11CA 2C10 DFE-

2A I S B 11CA 2H20 YLK-

3B -00 S S 11CA 2C10 DFE-

2B I B B 11CA 2G22 DMU-

+B USE ADDER NU 1
15.50.01.1
15.50.02.1
15.50.03.1
15.50.04.1
15.50.09.1

3C -0 S S 11CA 2C11 DAX-

2D I S B 11CA 2H20 YLK-

-B USE B CH NU *ARITH
*2-15.49.05.1

3E -00 S S 11CA 2A12 DAX-

2F R S 11CA 2B10 DAX-

3G -00 S S 11CA 2J23 DEY-

2G I S B 11CA 2H20 YLK-

-B ASSEMBLY CH NU ZERO INSERT
*3-15.50.01.1
*3-15.50.02.1
*3-15.50.03.1
*3-15.50.04.1
*3-15.50.09.1

*1—11C2F01K—11C1F28K—11C1Z20B—11C3Y20B
*3—11C2F01M—11C1F28M—11C1Z19D—11C3Y19D

*2—11C2F01L—11C1F28L—11C1Z20A—11C3Y20A

1

COMMENTS

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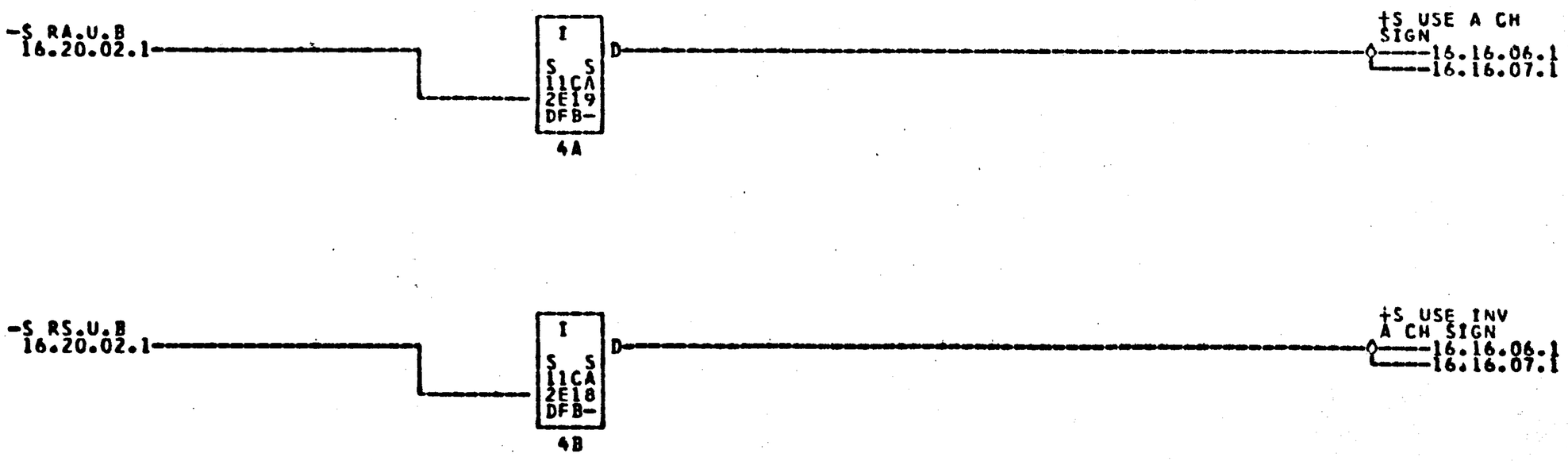
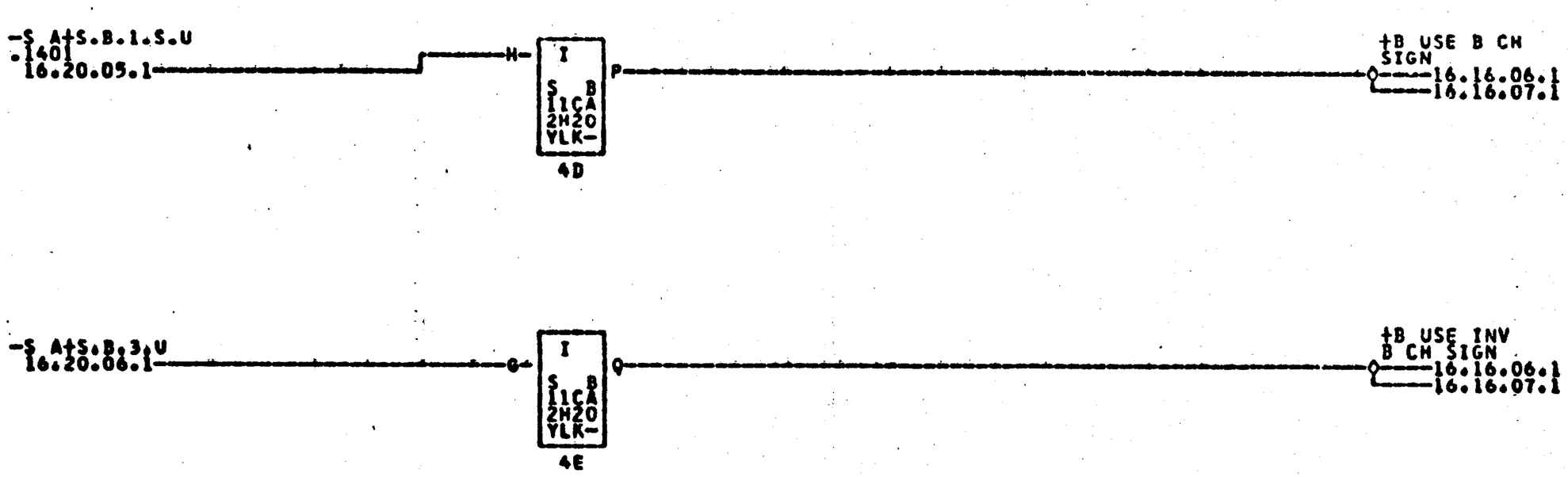
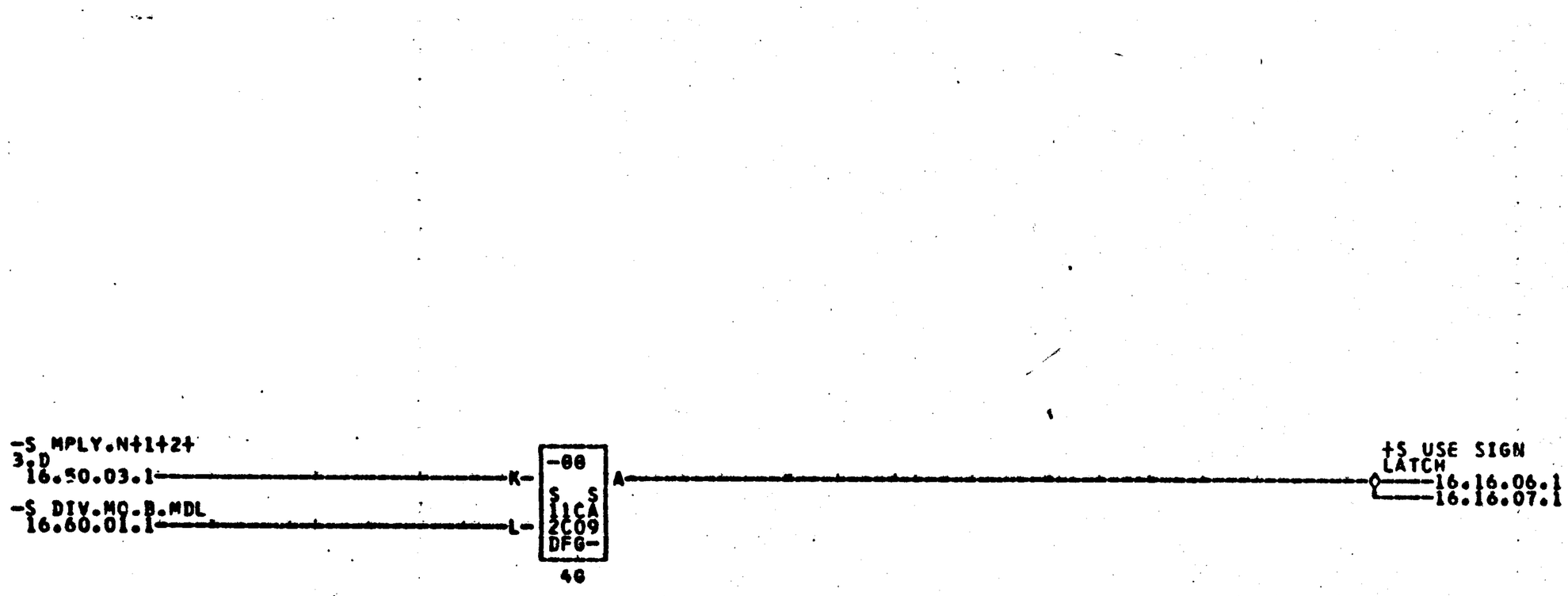
A	06-13-62	251773									







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COMMENTS

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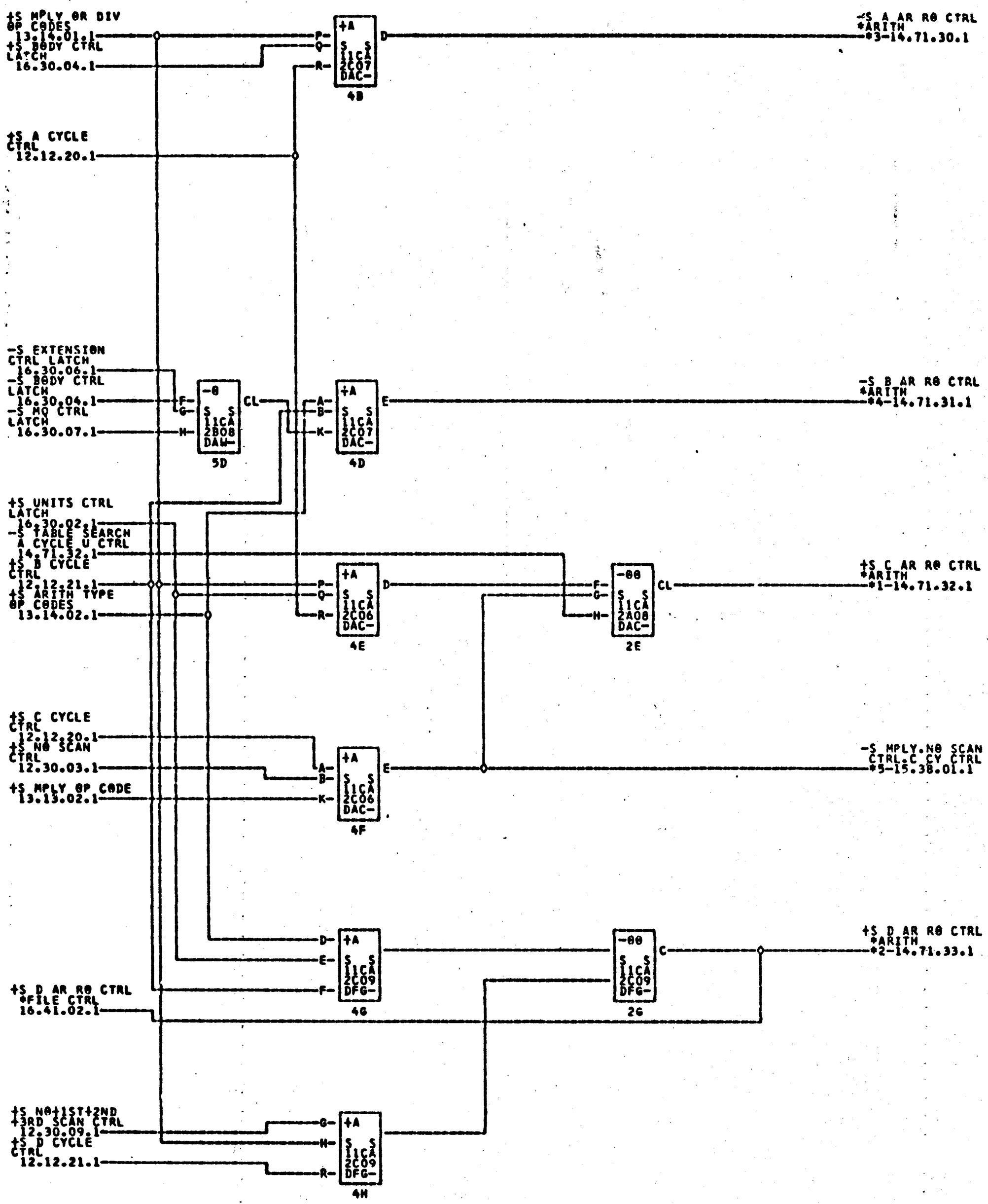

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*5—11C2Y04B—11C1Y04B—11C1K04M—11C3A04M

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COMMENTS

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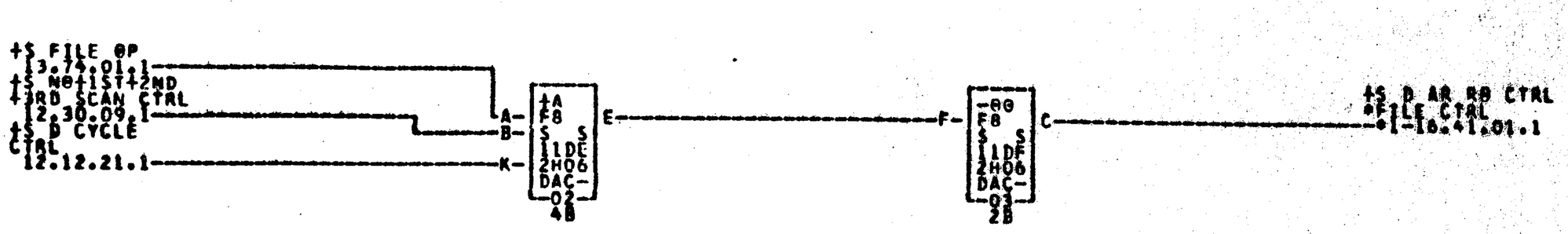
A	06-13-62	251773									



*1--11D2H01B--11D1H28D--11D1J02A--11C2J27A

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4D-4F-4H- IN FOR ADF CH 1 ONLY4E-4G-4I- IN FOR ADF CH 2 ONLY	A	00-00-00	09426	B	04-19-61	111394C	C	06-17-61	249906	D	11-29-61	250703
	E	12-14-61	250743	F	05-07-62	250776						

A

-S MPLY.N.D
16.50.03.1
-S MPLY.U+Y.B.
NOT AW
16.50.01.1
-S MPLY.3.D.MDL
16.50.03.1

-00
S S
11CA
2C04
DAW-
4A

+S SET A CYCLE
CTRL *ARITH
*2-12.12.41.1

-S LB.B CYCLE.
BODY LATCH
14.18.21.1
-S LB.B CYCLE.
1ST SCAN.UNITS
14.18.21.1
-B 1401 MPLY
EARLY END
16.50.05.1

-00
S S
11CA
2D24
DAC-
4B

-S DIV.U+Y.B.
NOT AW
16.60.01.1
-S DIV.2.D
16.60.02.1

-00
S S
11CA
2C08
DAX-
4C

-B MPLY.MQ.B.T.
3.B1-9
16.50.04.1
-B MPLY.MQ.B.S.
BO-8
16.50.05.1
-B DIV.X.B.S.
NOT RC
16.60.02.1

-00
B S
11CA
2E10
YLH-
4D

-B DIV.MQ.B.S.
NOT RC
16.60.01.1
-B RA+RS+A+S.1.
B.NOT BW.NOT AW
16.20.03.1

-00
B S
11CA
2E09
YLH-
4E

-S MPLY.N.C
16.50.01.1
-B RA+RS+A+S.1.
B NOT BW.AW
16.20.03.1
-B DIV.X.B.S.RC
16.60.02.1

-00
B S
11CA
2E03
YLD-
4F

-00
S S
11CA
2C08
DAX-
3F

+S SET B CYCLE
CTRL *ARITH
*1-12.12.44.1

-B A+S.B.1.S.BW
.NOT RC
16.20.05.1
-B A+S.B.3.NOT
BW
16.20.06.1

-00
B S
11CA
2E10
YLH-
4G

-S MPLY.U+Y.B.
AW.3
16.50.01.1

-S MPLY.X.B.NOT
MDL
16.50.02.1
-S MPLY.1+3.D.
NOT MDL
16.50.03.1

-00
S S
11CA
2AI6
YAU-
4H

-S DIV.U+Y.B.AW
16.60.01.1
-S DIV.X.B.T.
MDL
16.60.02.1
-S LB.B CYCLE
EXT.ZONE CARRY
14.18.21.1

-00
S S
11CA
2B04
DAW-
4I

*1-11C2D02M-11C1D27M *2-11C2D02L-11C1D27L

COMMENTS

TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
A	06-13-62	251773									

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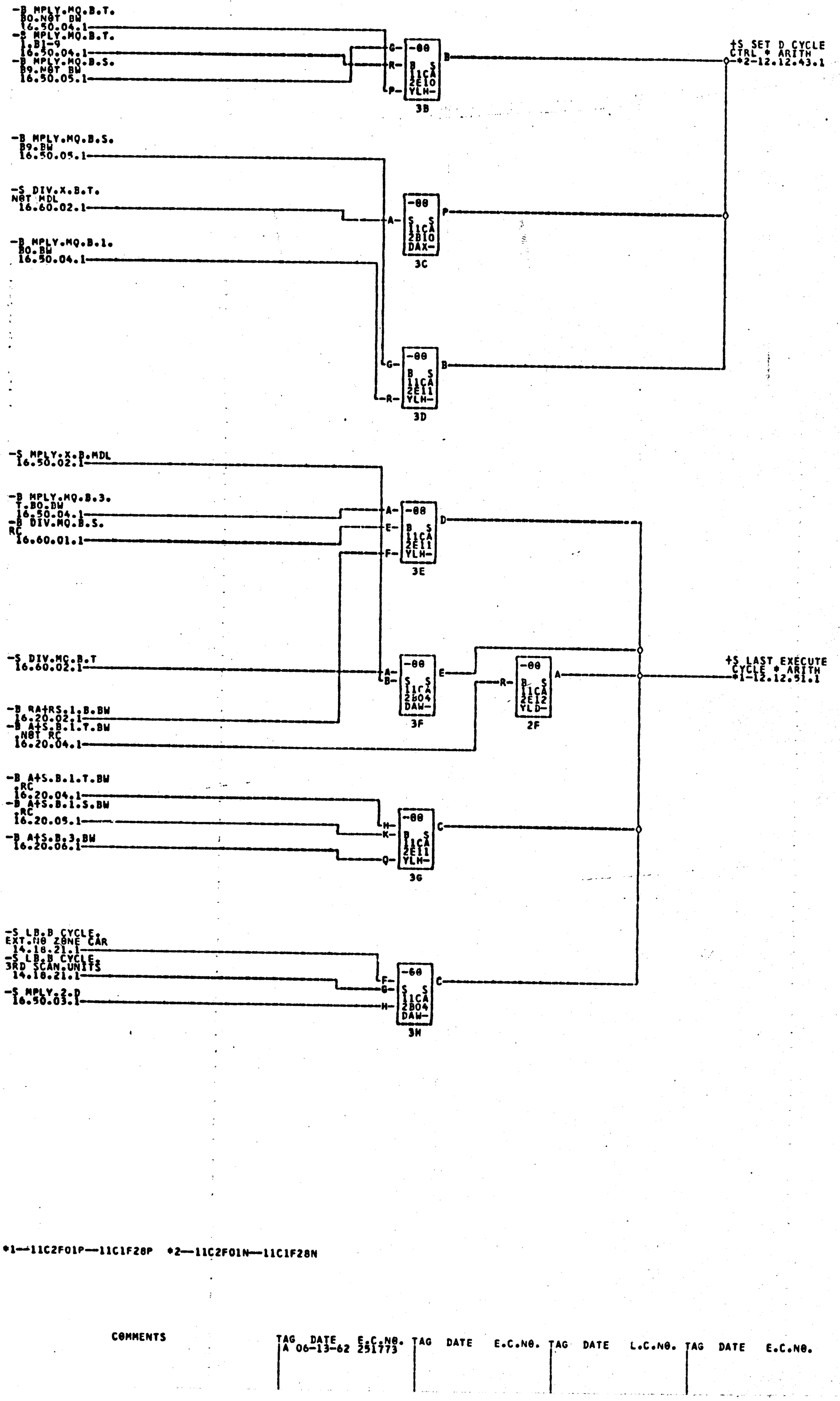

*1—11C2F01P—11C1F28P *2—11C2F01N—11C1F28N

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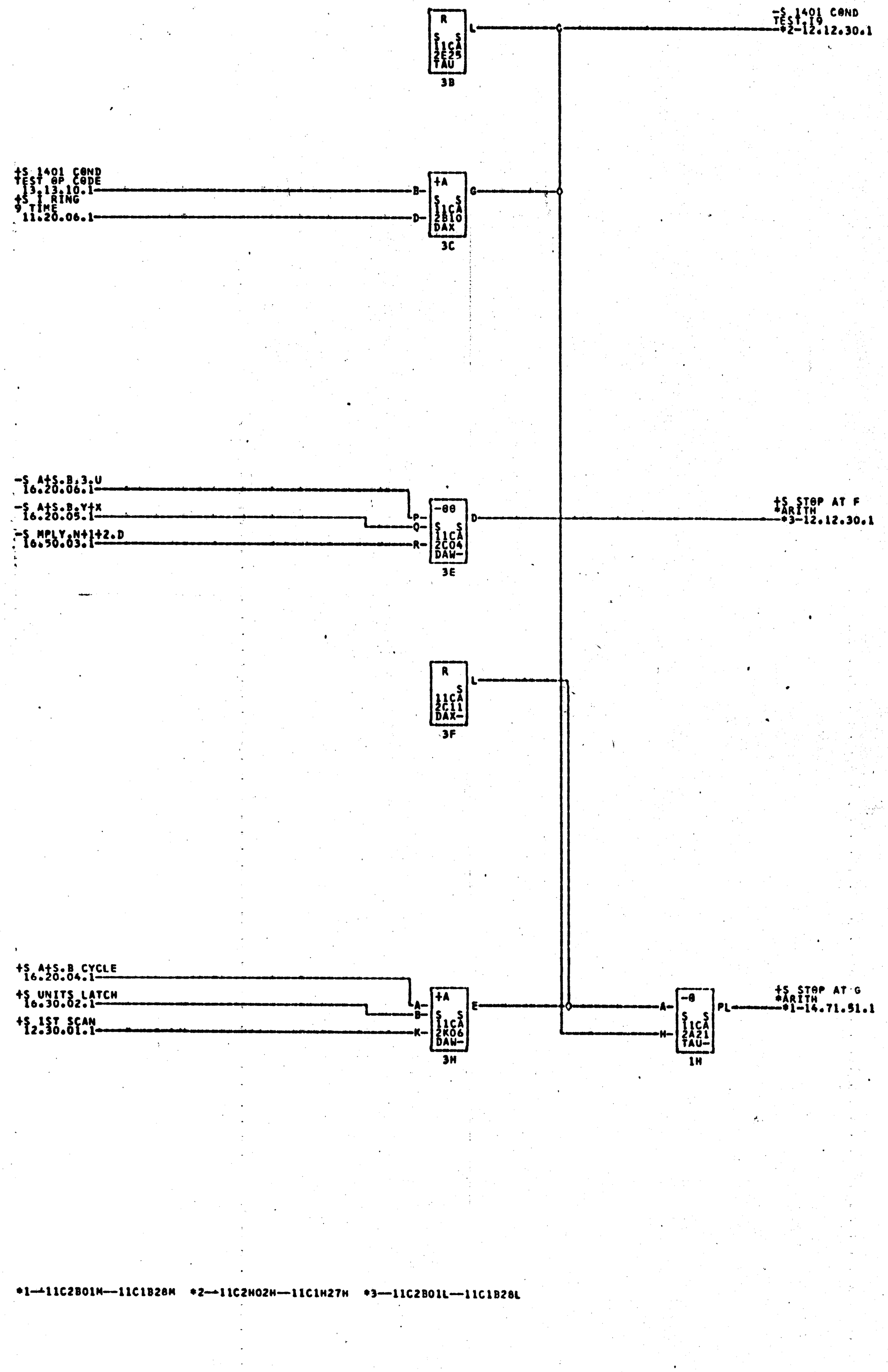
COMMENTS

TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	L.C.NO.	TAG	DATE	E.C.NO.
A	06-13-62	251773									

A



•1—11C2B01M—11C1B28M •2—11C2H02H—11C1H27H •3—11C2B01L—11C1B28L

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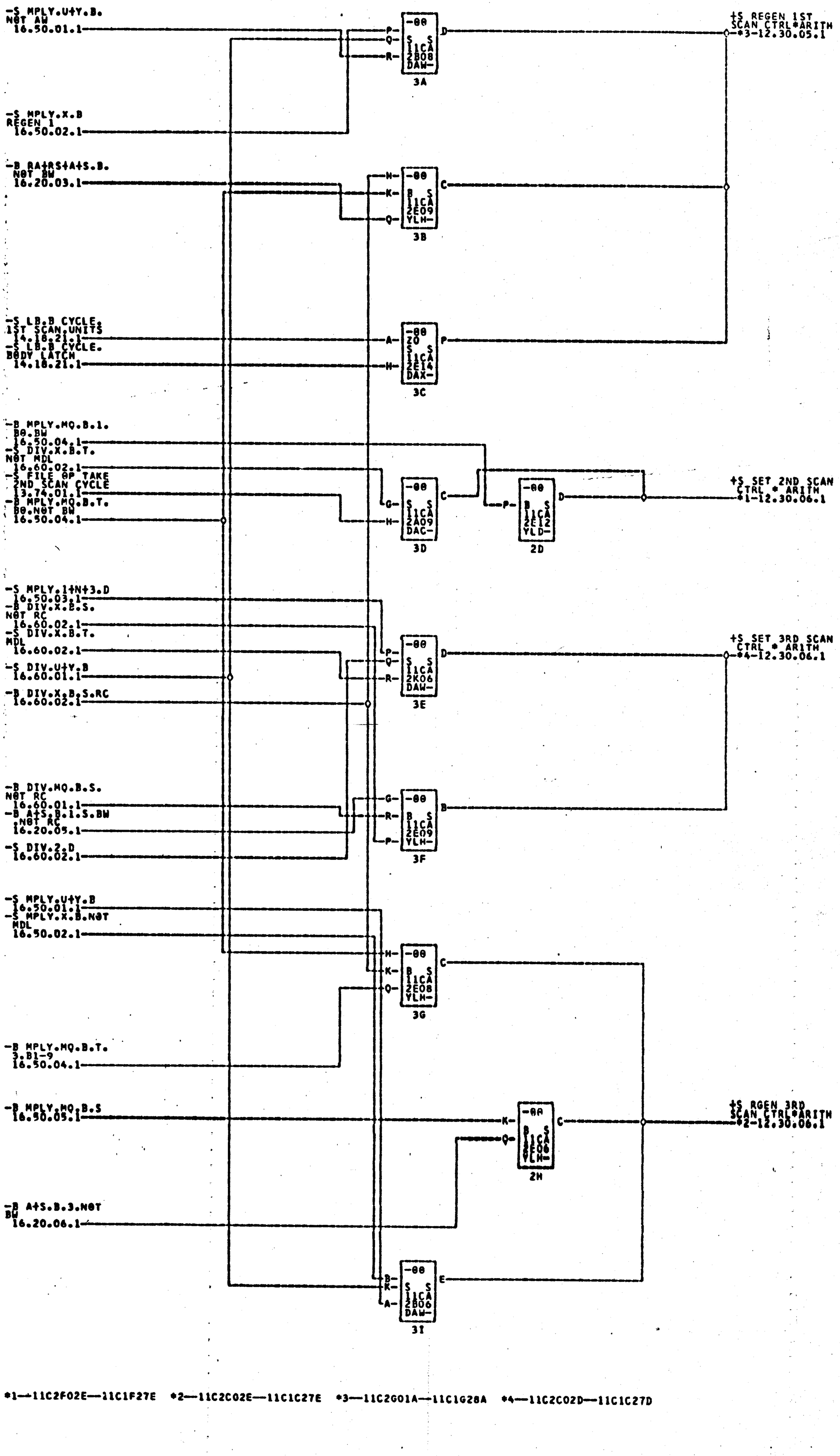
COMMENTS

TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
A	06-13-62	251773									



*1—11C2F02E—11C1F27E *2—11C2C02E—11C1C27E *3—11C2G01A—11C1G28A *4—11C2C02D—11C1C27D

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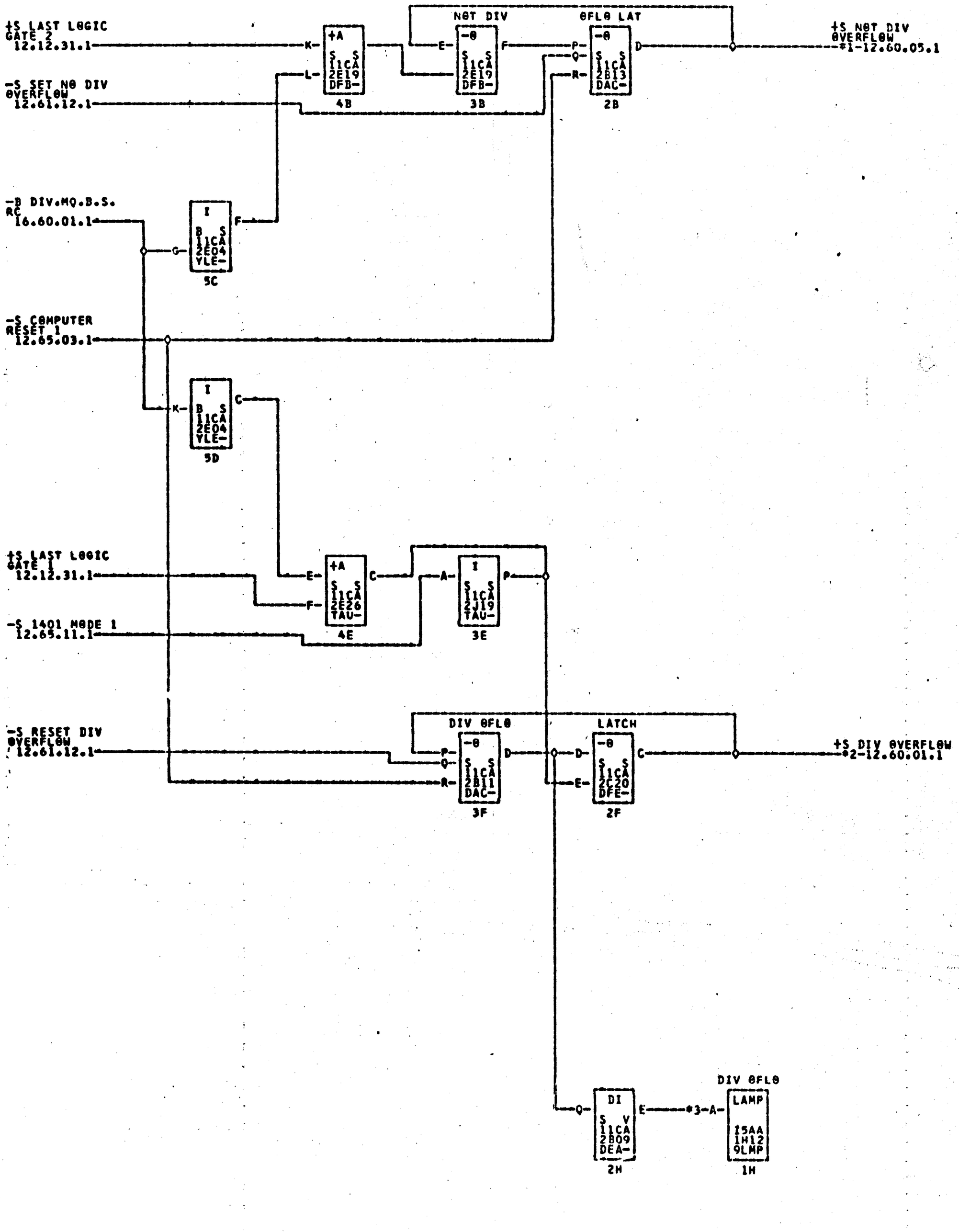
COMMENTS

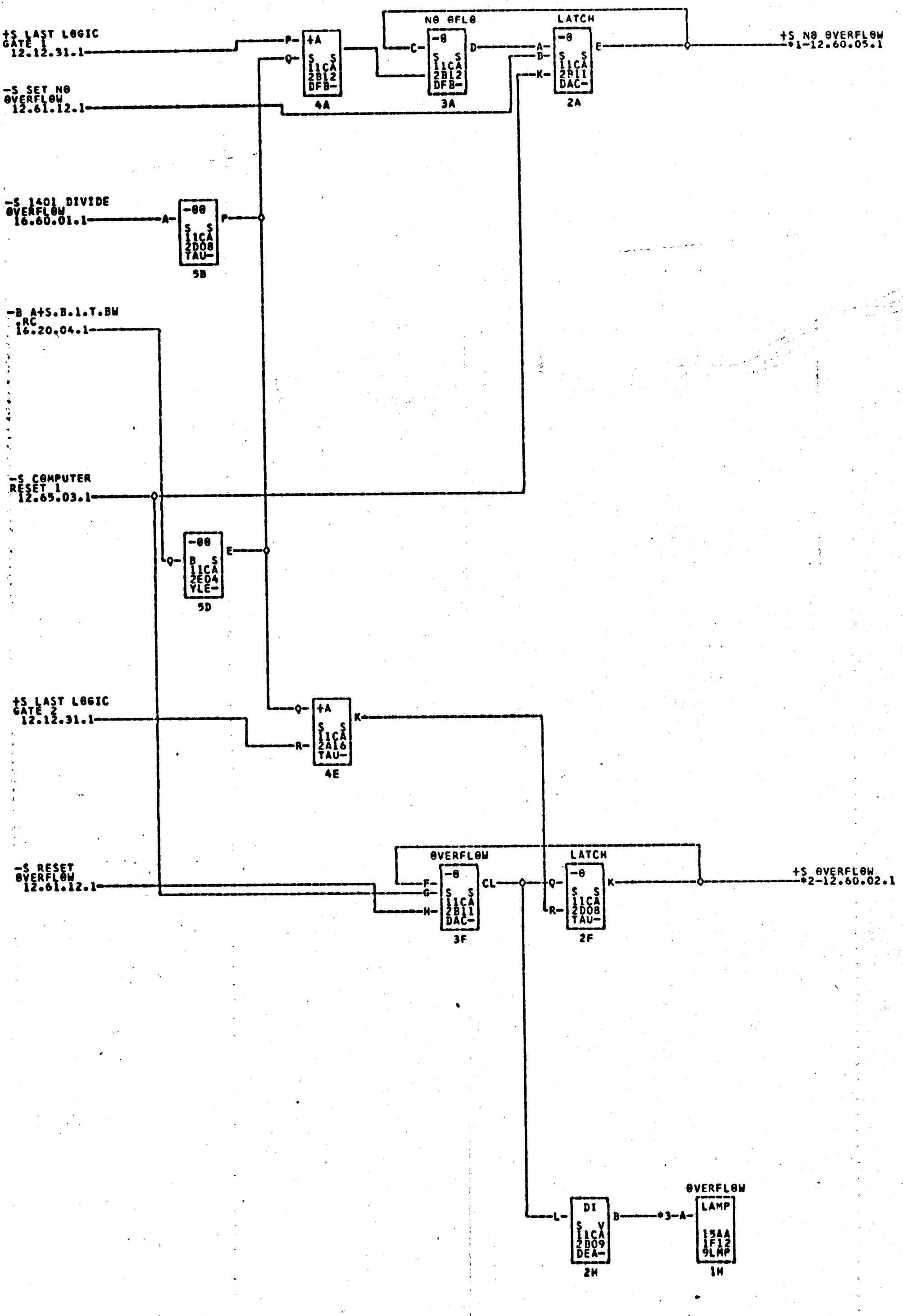
TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
A	06-13-62	251773									



*1—11C2B28C—11D1B01C *2—11C2B28D—11D1B01D *3—11C2Z09A—11C4Y09A—11C4K26A—11C7L49A—15A4A19J—15A4A20J

COMMENTS

TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
A	06-13-62	251773									



*1—11C2B28G—11D1B01G *2—11C2B28H—11D1B01H *3—11C2Z09B—11C4Y09B—11C4K26B—11C7L49K—15A6A19H—15A4A20H

COMMENTS

TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
A	06-13-62	251773									

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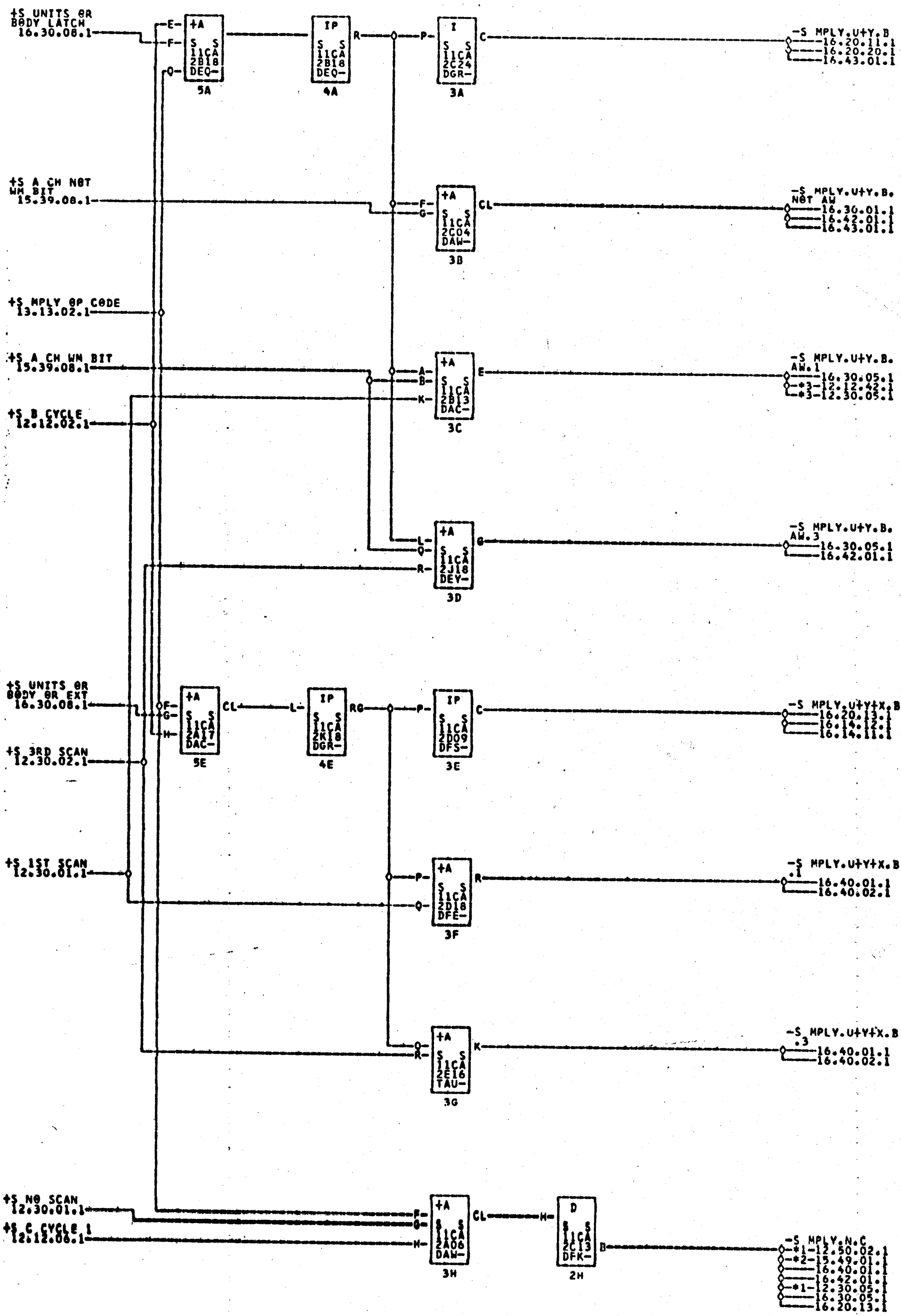

*1—11C2Y06D—11C1Y06D *2—11C2Z12A—11C4Y12A—11C4A01G—11C3A28G *3—11C2Y06A—11C1Y06A

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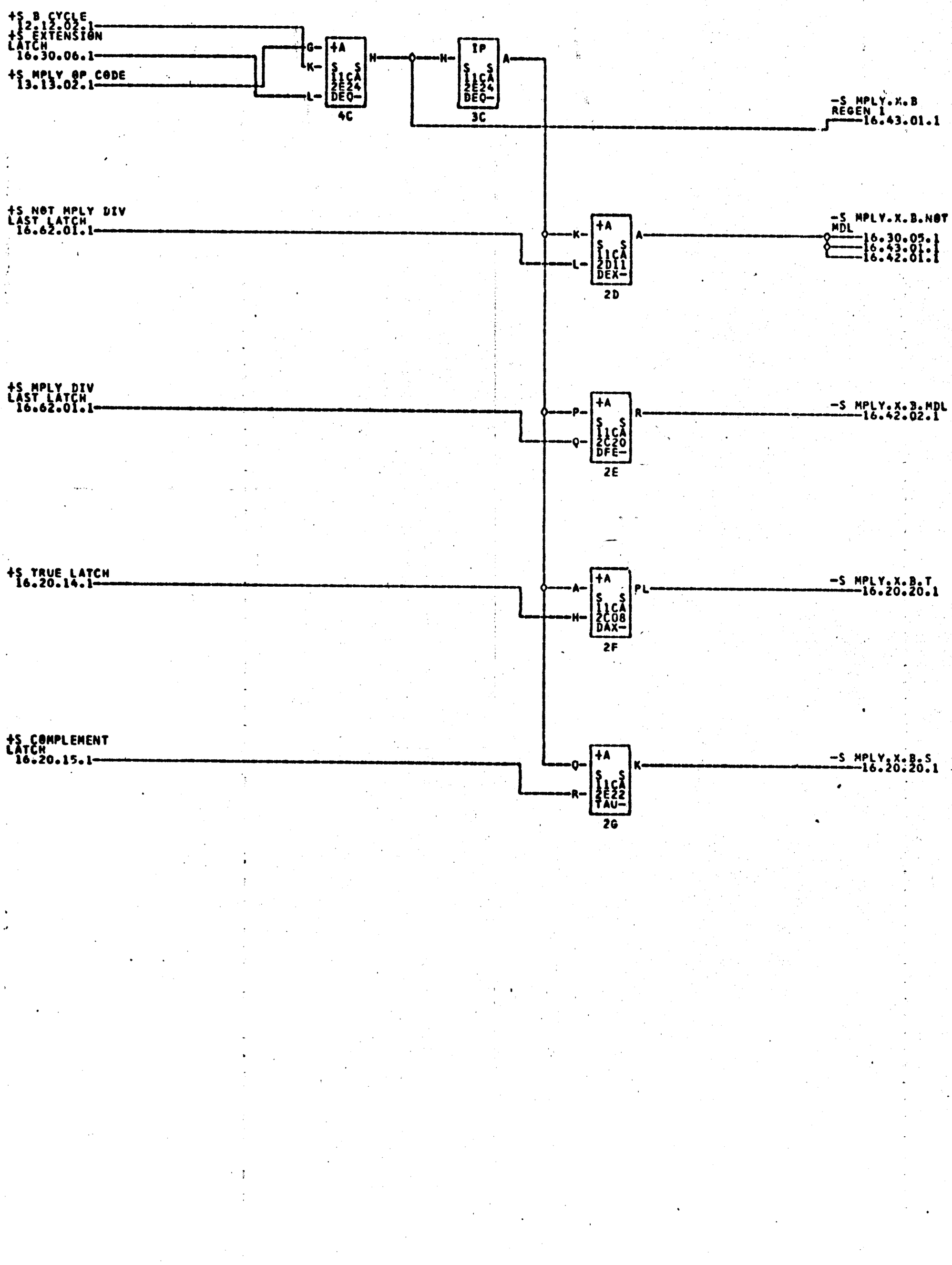
COMMENTS

TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
A	06-13-62	251773									



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COMMENTS

TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
A	06-13-62	251773									

+S N0+1ST+2ND +3RD SCAN 12.30.09.1

+S MPLY OP CODE 13.13.02.1

+S D CYCLE 12.12.07.1

4A: +A S S 1ICA 2B18 DEQ-

3A: IP S S 1ICA 2B18 DEQ-

2A: +A S S 1ICA 2B15 DEW-

-S MPLY.N+1+2+3.D
16.40.02.1
16.40.03.1

+S N0 SCAN 12.30.01.1

2B: +A S S 1ICA 2B15 DEW-

-S MPLY.N.D
16.30.01.1
16.42.01.1

+S 2ND SCAN 12.30.02.1

+S 1ST+N0+3RD SCAN 12.30.09.1

2C: +A S S 1ICA 2B15 DEW-

1C: +A S S 1ICA 2D25 TAU-

-S MPLY.1+N+3.D
16.43.01.1
16.20.13.1

-S MPLY.2.D
16.42.02.1

+S 3RD SCAN 12.30.02.1

2D: +A S S 1ICA 2B15 DEW-

-S MPLY.3.D
12.50.02.1
12.12.30.1

+S MPLY DIV LAST LATCH 16.62.01.1

2E: +A S S 1ICA 2B19 DFC-

-S MPLY.3.D.MDL
16.30.01.1
16.42.01.1

+S 1ST+3RD SCAN 12.30.09.1

+S N0T MPLY DIV LAST LATCH 16.62.01.1

+B B CM 0 16.61.01.1

+S 1401 MODE 1 12.65.10.1

+B B CM WM BIT 19.30.08.1

4F: +AA S S 1ICA 2E15 DAX-

2F: +AA S S 1ICA 2B19 DFC-

1F: +AA ZO S S 1ICA 2E15 DAX-

-S MPLY.1+3.D. N0T MDL
16.30.05.1
16.42.01.1

+S TRUE LATCH 1 16.20.14.1

4G: +AA B S 1ICA 2E07 YLJ-

2G: +A S S 1ICA 2B19 DFC-

-S MPLY.D.T 16.20.20.1

+S COMPLEMENT LATCH 16.20.15.1

2H: +A S S 1ICA 2B19 DFC-

-S MPLY.D.S 16.20.20.1

+S N0+1ST+2ND SCAN 12.30.09.1

2I: +A S S 1ICA 2B15 DEW-

-S MPLY.N+1+2.D
*2-12.50.01.1
16.42.04.1

*1—11C2B01C—11C1B28C *2—11C2B01D—11C1B28D

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COMMENTS

TAG	DATE	E.C.N0.	TAG	DATE	E.C.N0.	TAG	DATE	E.C.N0.	TAG	DATE	E.C.N0.
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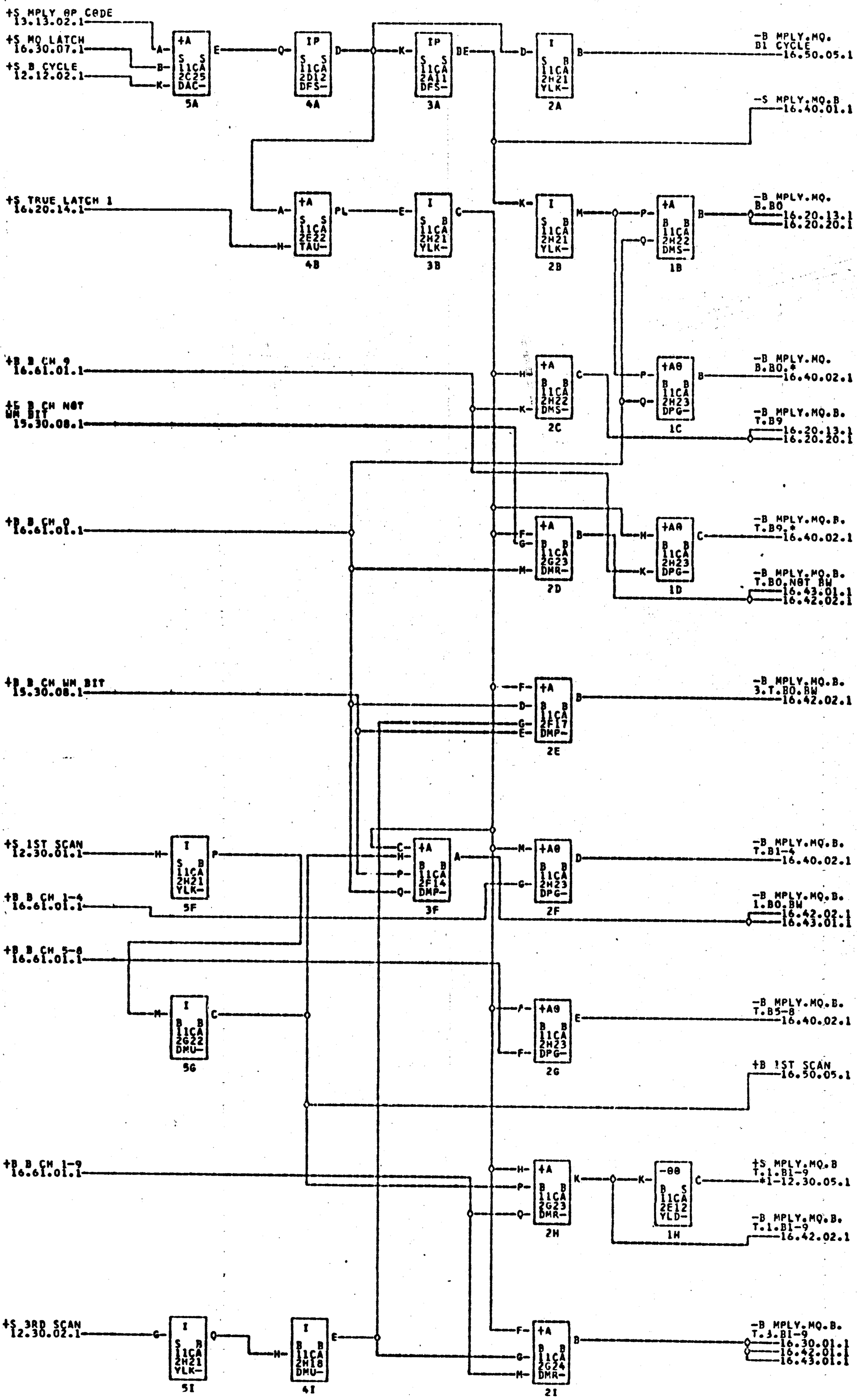

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COMMENTS

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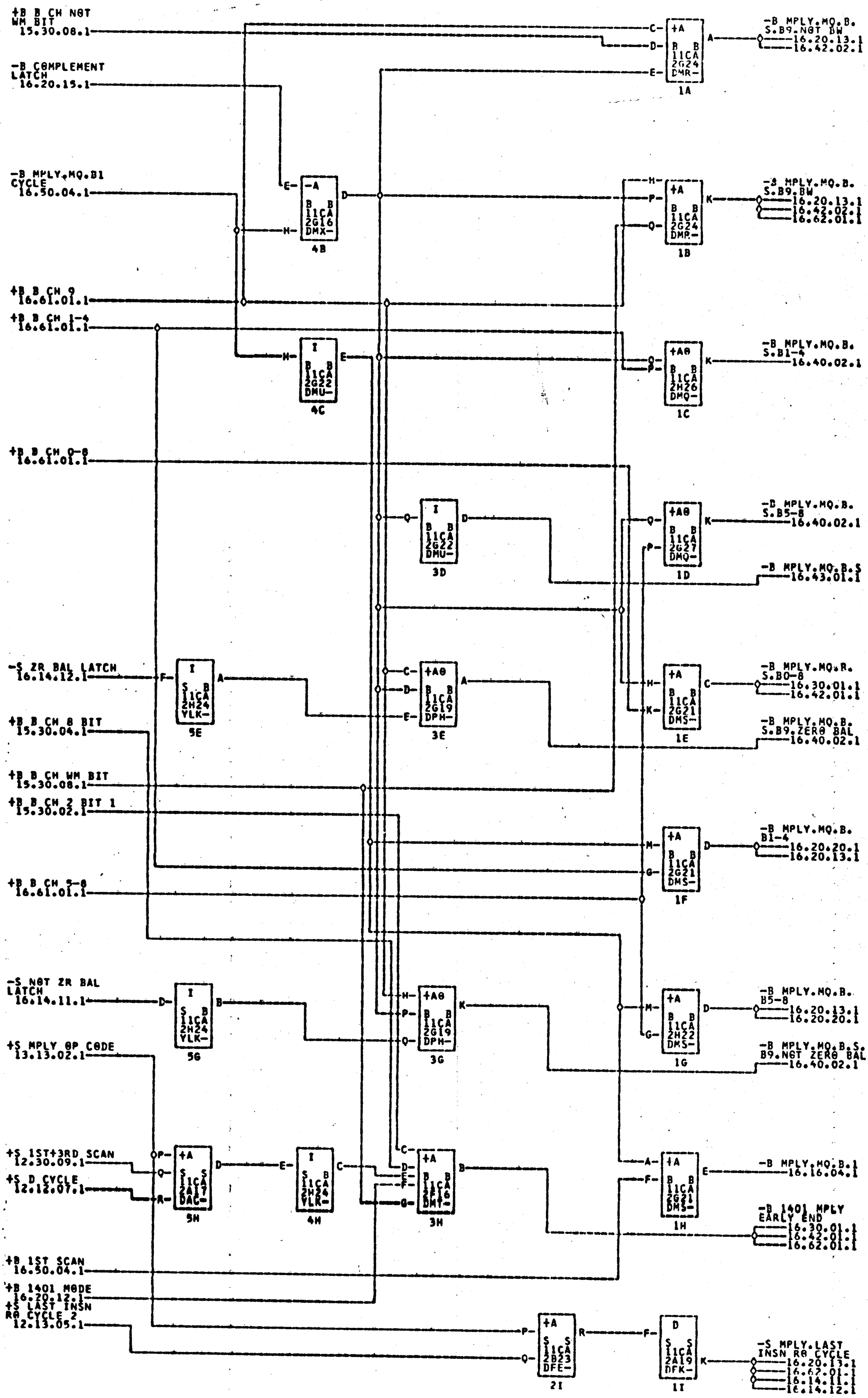

COMMENTS

TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
A	06-13-62	251773									

+S LAST INSN R0 CYCLE 12.13.05.1
+S DIV OP CODE 13.13.02.1
+S UNITS 0R BODY 0R EXT 16.30.08.1
+S B CYCLE 12.12.02.1
+S UNITS 0R BODY LATCH 16.30.08.1
+S A CH NOT WM BIT 15.39.08.1
+S A CH WM BIT 15.39.08.1
+S MQ LATCH 16.30.07.1
+B ADDER NO CARRY 16.14.06.1
+B ADDER CARRY 16.14.06.1
+B COMPLEMENT LATCH 16.20.15.1
+S MPLY DIV LAST LATCH 16.62.01.1
+B 1401 MODE 16.20.12.1
+S NOT MPLY DIV LAST LATCH 16.62.01.1

4A +A S S I1CA 2A18 TAU-
3A D S S I1CA 2F23 DFK-
4B +A S S I1CA 2A17 DAC-
2B D S S I1CA 2F23 DFK-
4C +A S S I1CA 2A24 DAC-
3C IP S S I1CA 2A11 DFS-
2C +A S S I1CA 2B26 TAU-
2D +A S S I1CA 2B26 TAU-
4E +A S S I1CA 2A24 DAC-
3E I S B I1CA 2H24 YLK-
2E +A B B I1CA 2G26 DMR-
4F I S S I1CA 2B24 DEW-
2F +A B B I1CA 2G26 DMR-
2G +A S S I1CA 2A18 TAU-
4H I B B I1CA 2G22 DMU-
2H -A B B I1CA 2F15 DMY-
1H I B S I1CA 2F04 YLE-
2I +A S S I1CA 2A18 TAU-

-S DIV.LAST INSN R0 CYCLE 16.20.13.1, 16.20.20.1, 16.62.01.1, 16.40.01.1
-S DIV.U+V.B 16.20.11.1, 16.20.20.1, 16.43.01.1, 16.20.13.1
-S DIV.U+Y+X.B 16.40.01.1
-S DIV.U+Y.B.NOT AW 16.30.01.1, 16.42.01.1
-S DIV.U+Y.B.AW 16.30.05.1, 16.42.01.1
-B DIV.MQ.B.S.NOT.RC 16.20.20.1, 16.30.01.1, 16.42.01.1, 16.43.01.1
-S DIV.MQ.B 16.20.13.1
-B DIV.MQ.B.S.RC 16.45.01.1, 16.42.02.1
+S DIV.MQ.B 16.60.02.1
-S DIV.MQ.B.MDL 16.40.03.1
-S 1401 DIVIDE 0VERFL0W 16.45.02.1
-S DIV.MQ.B.NOT MDL 16.40.01.1

COMMENTS

TAG	DATE	E.C.N0.
A	06-13-62	251773

TAG DATE E.C.N0. | TAG DATE E.C.N0. | TAG DATE E.C.N0. | TAG DATE E.C.N0.

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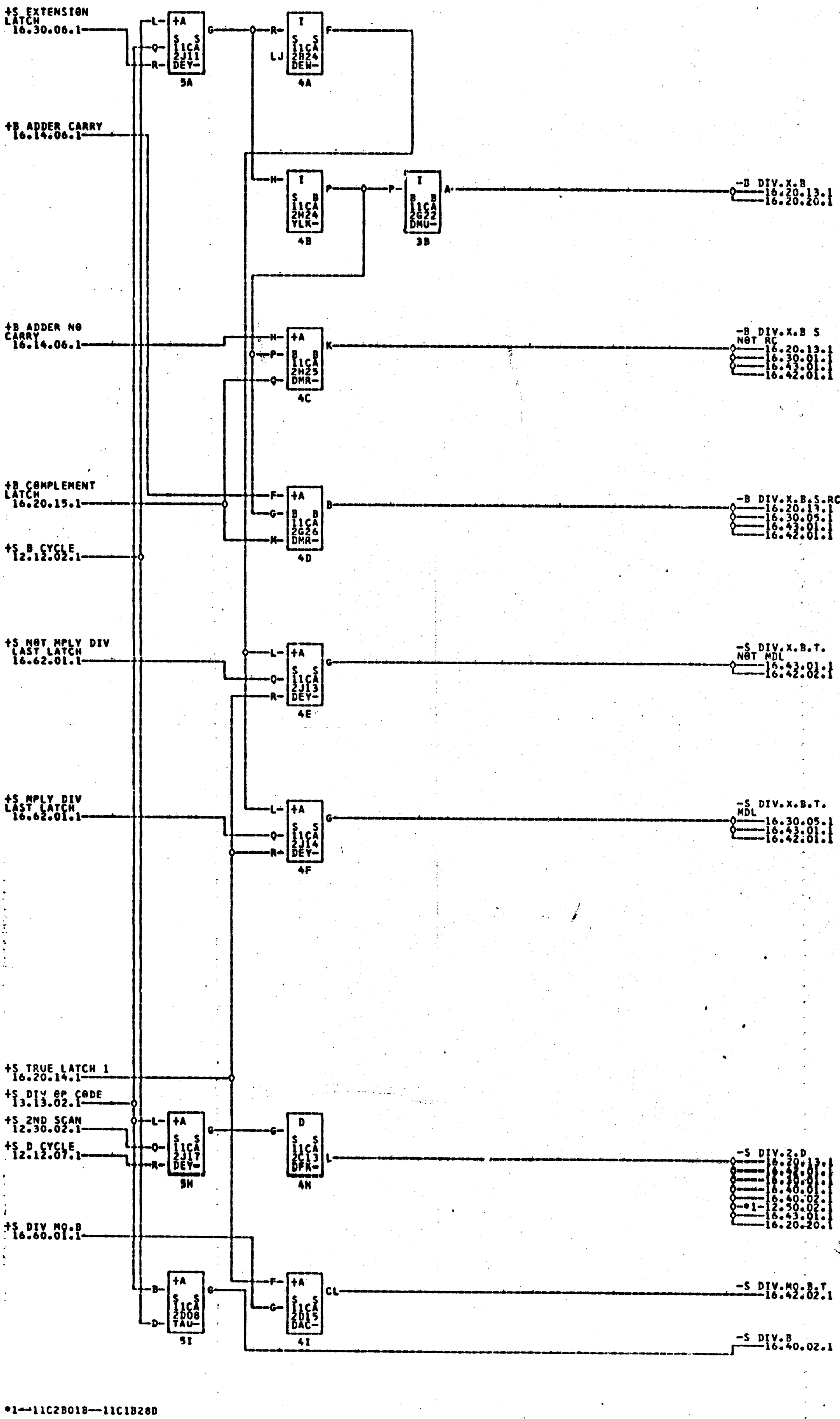
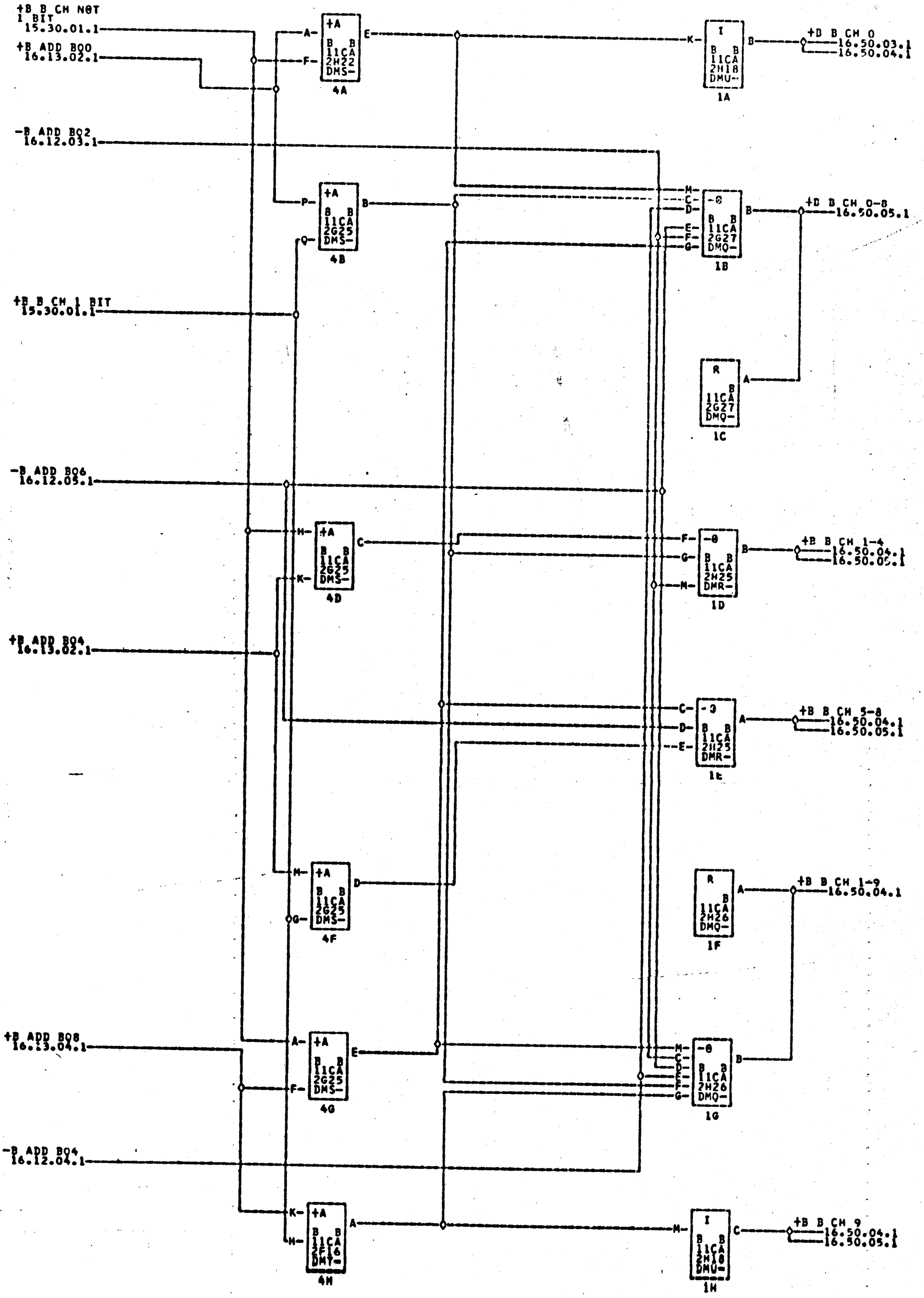


COMMENTS

TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
A	06-13-62	251773									

A



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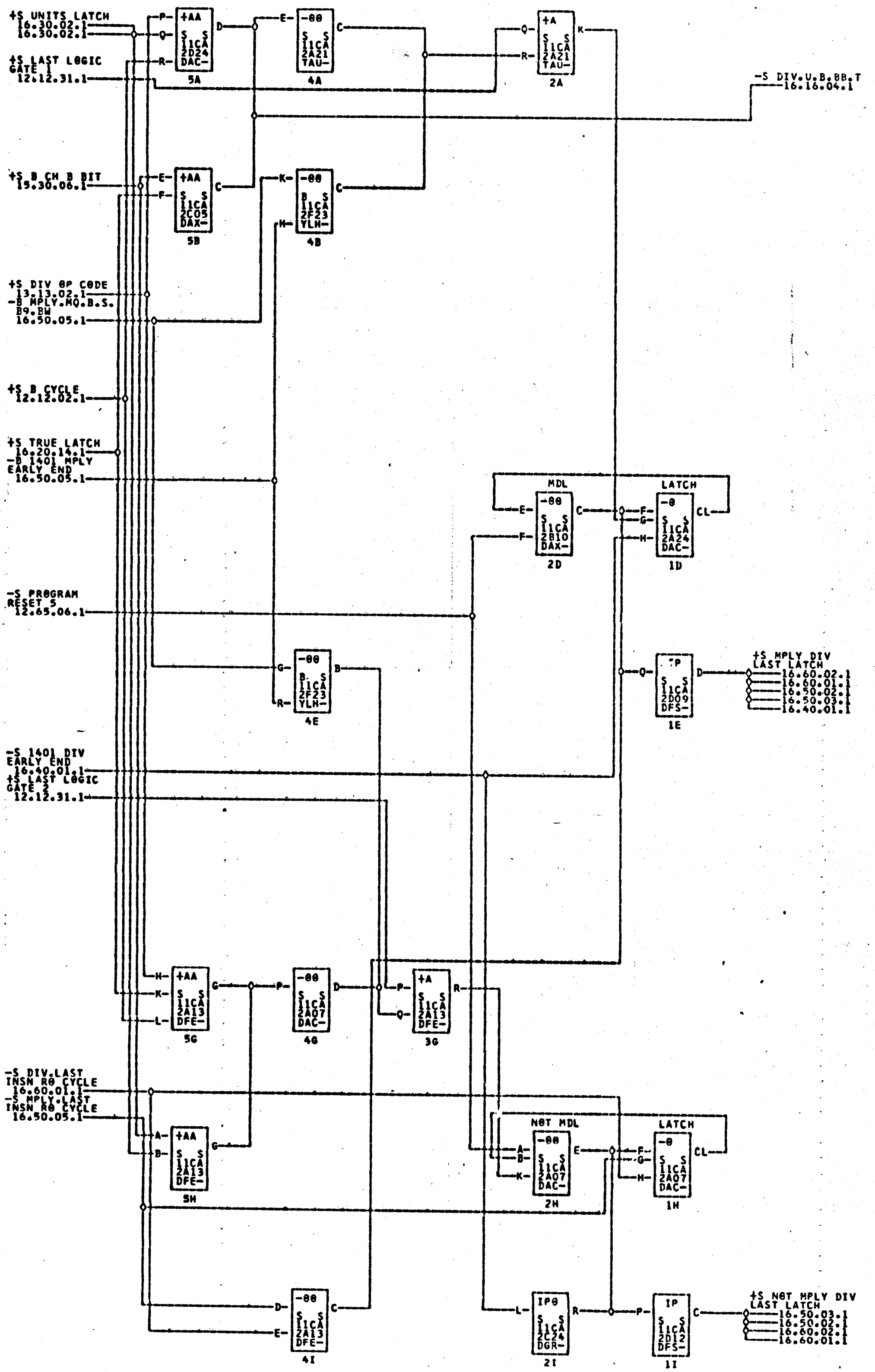
COMMENTS

TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
A	06-13-62	251773									

A



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COMMENTS

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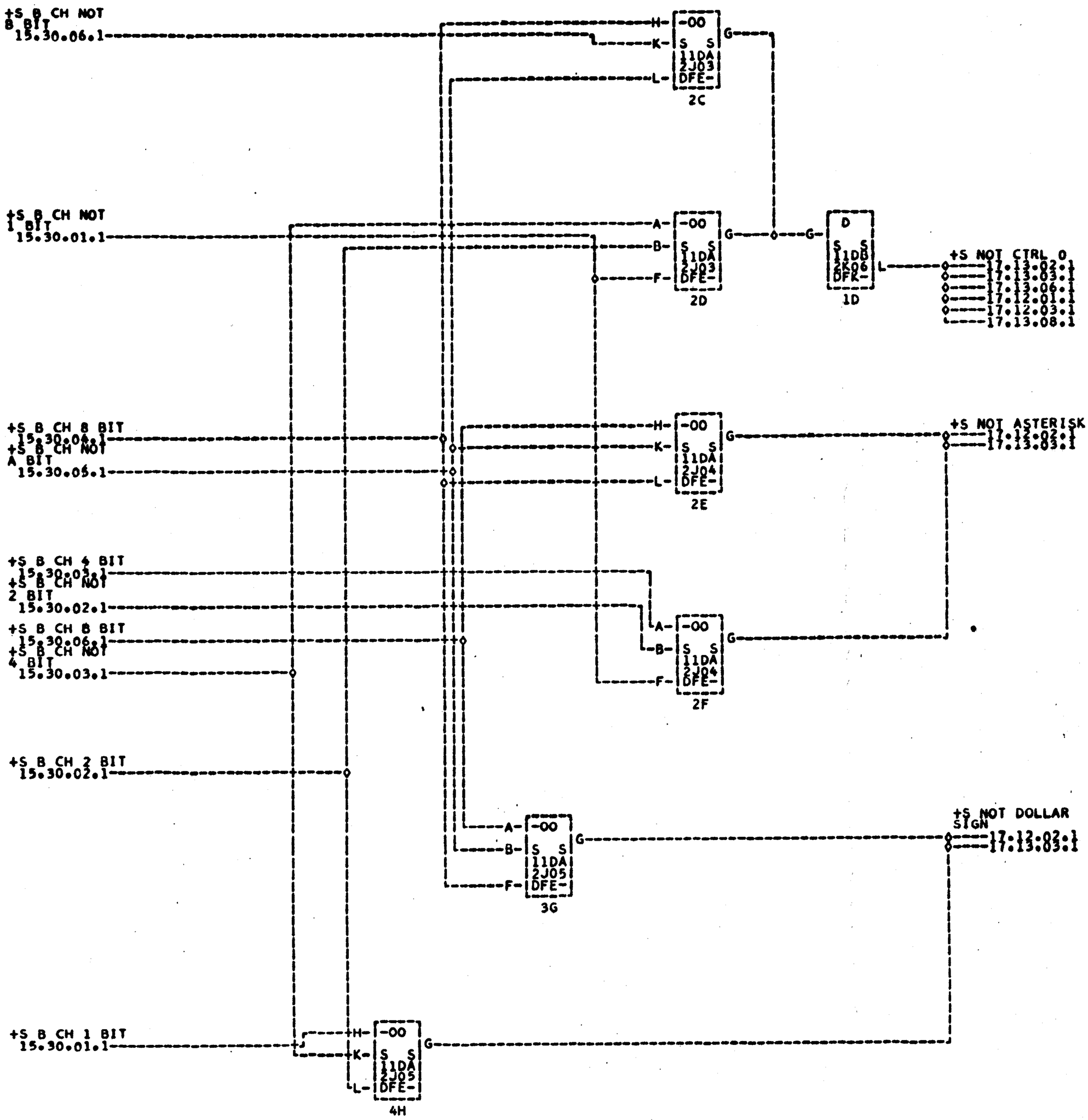
A	06-13-62	251773									



4H

COMMENTS

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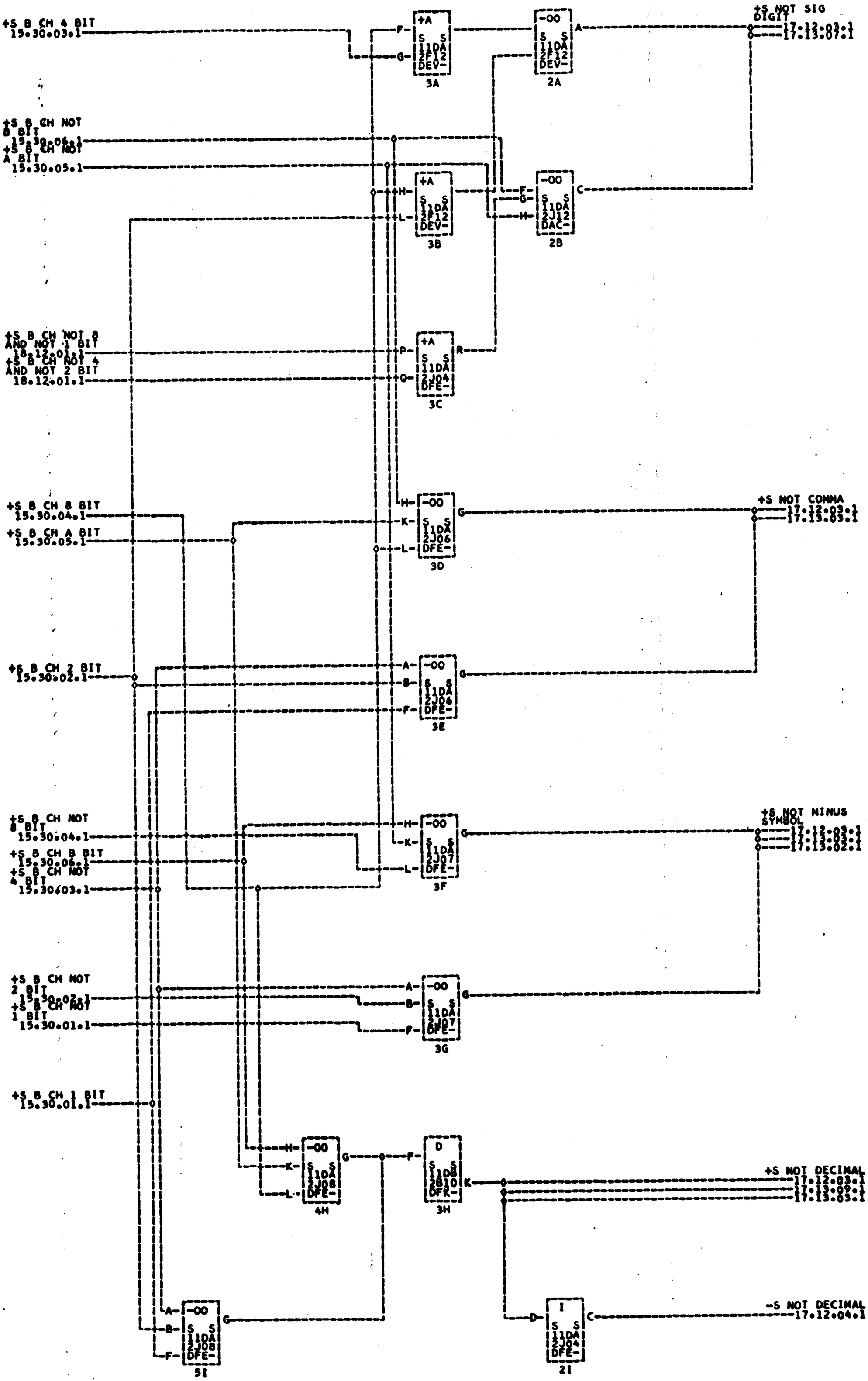
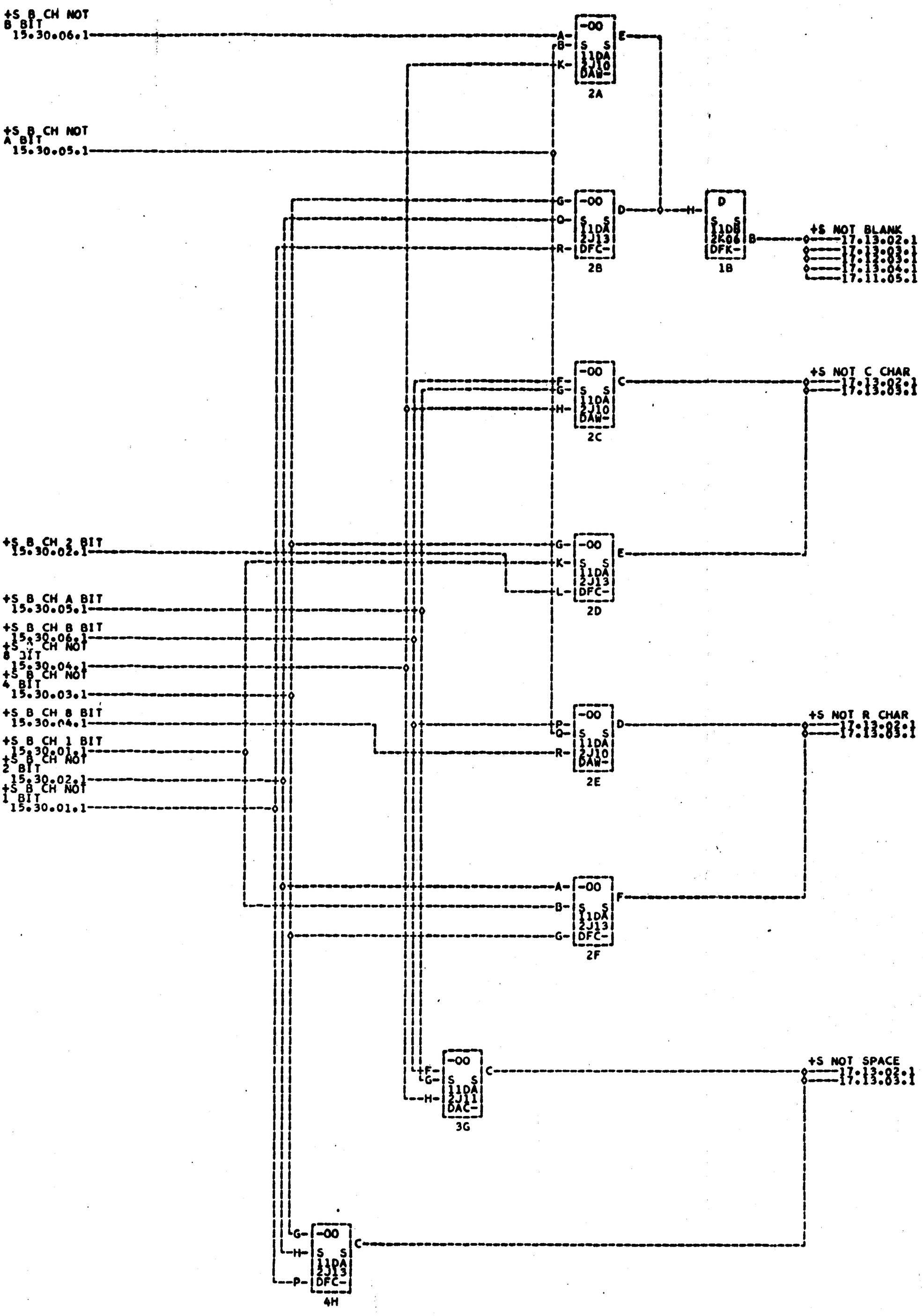
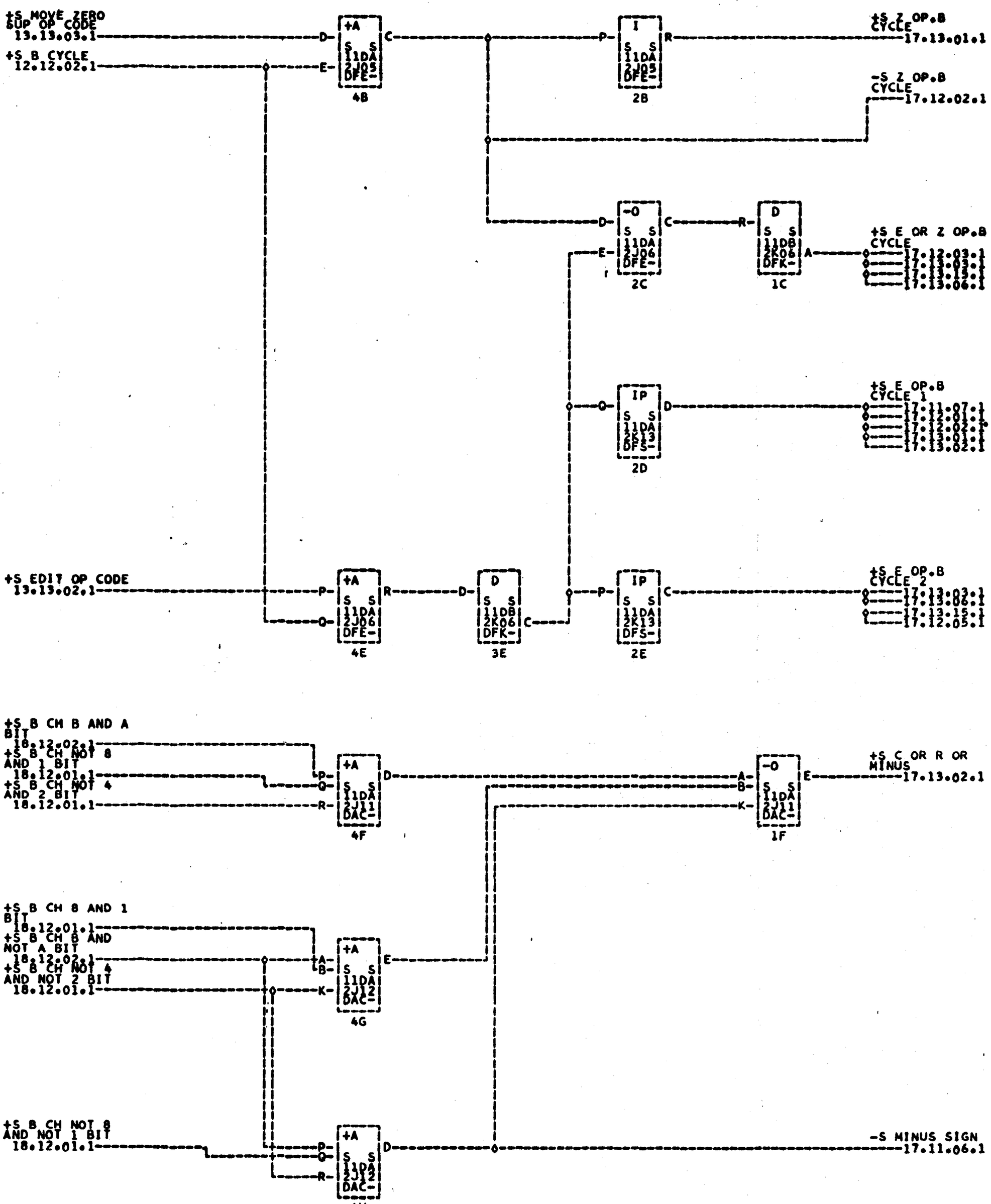


COMMENTS	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
	A	00-00-00	109412	B	06-15-61	249906						



COMMENTS

TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
A	00-00-00	109370J	B	06-15-61	249906						



COMMENTS

TAG	DATE	E.C.NO.
A	00-00-00	109412
B	06-15-61	249906

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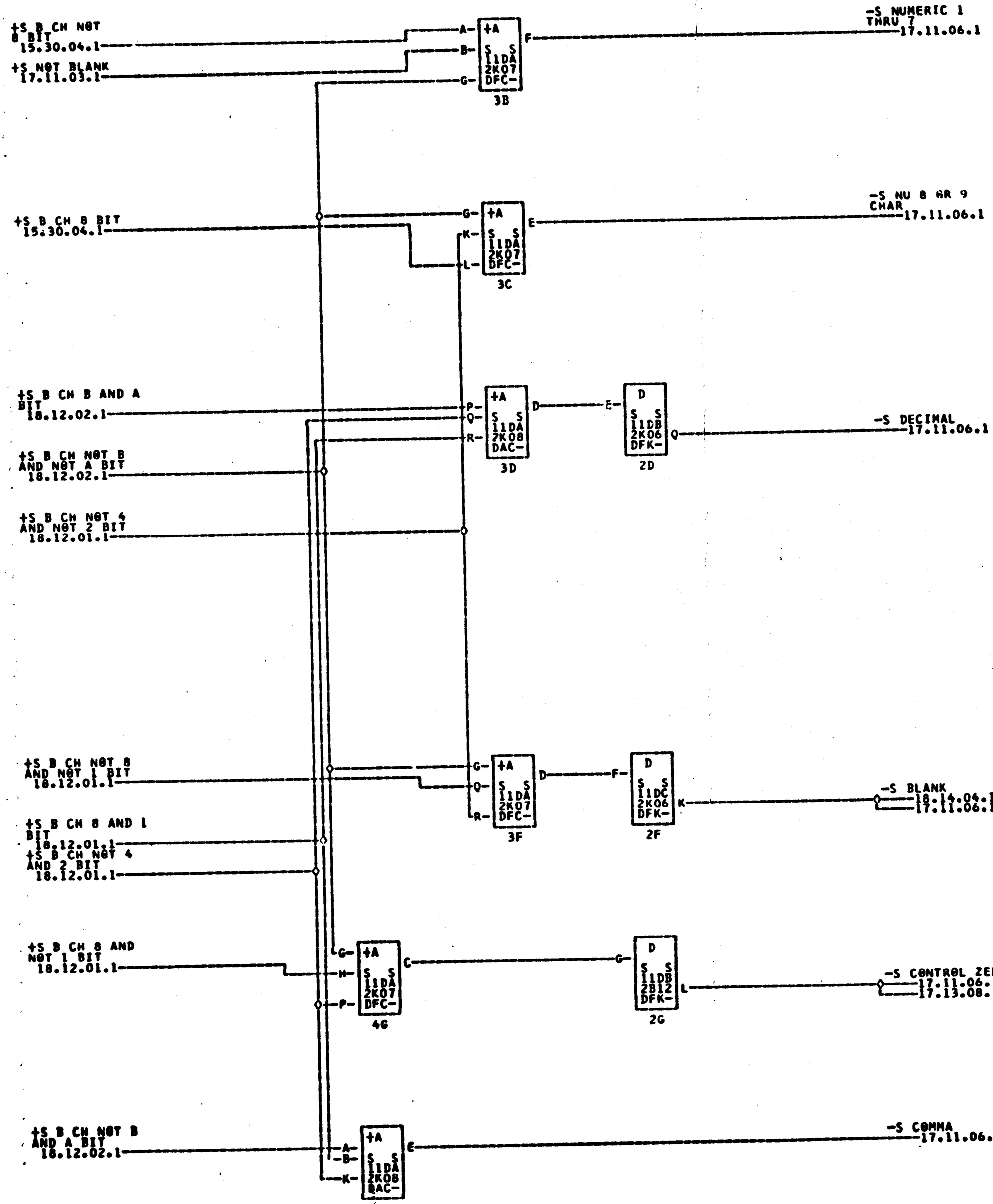

1 SIGNAL -S BLANK MAY BE OBTAINED FROM 15.41.04.1

COMMENTS

TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
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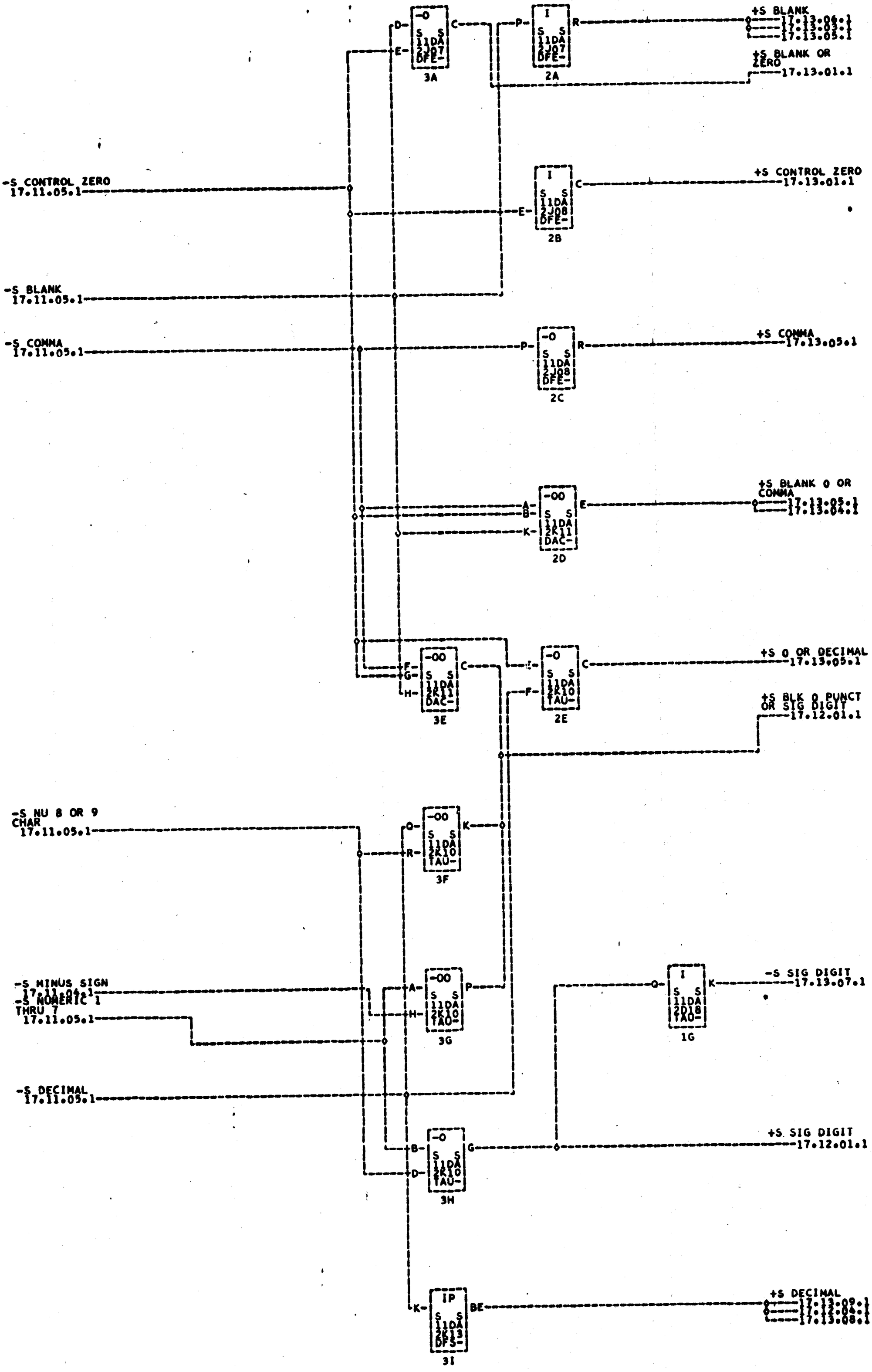
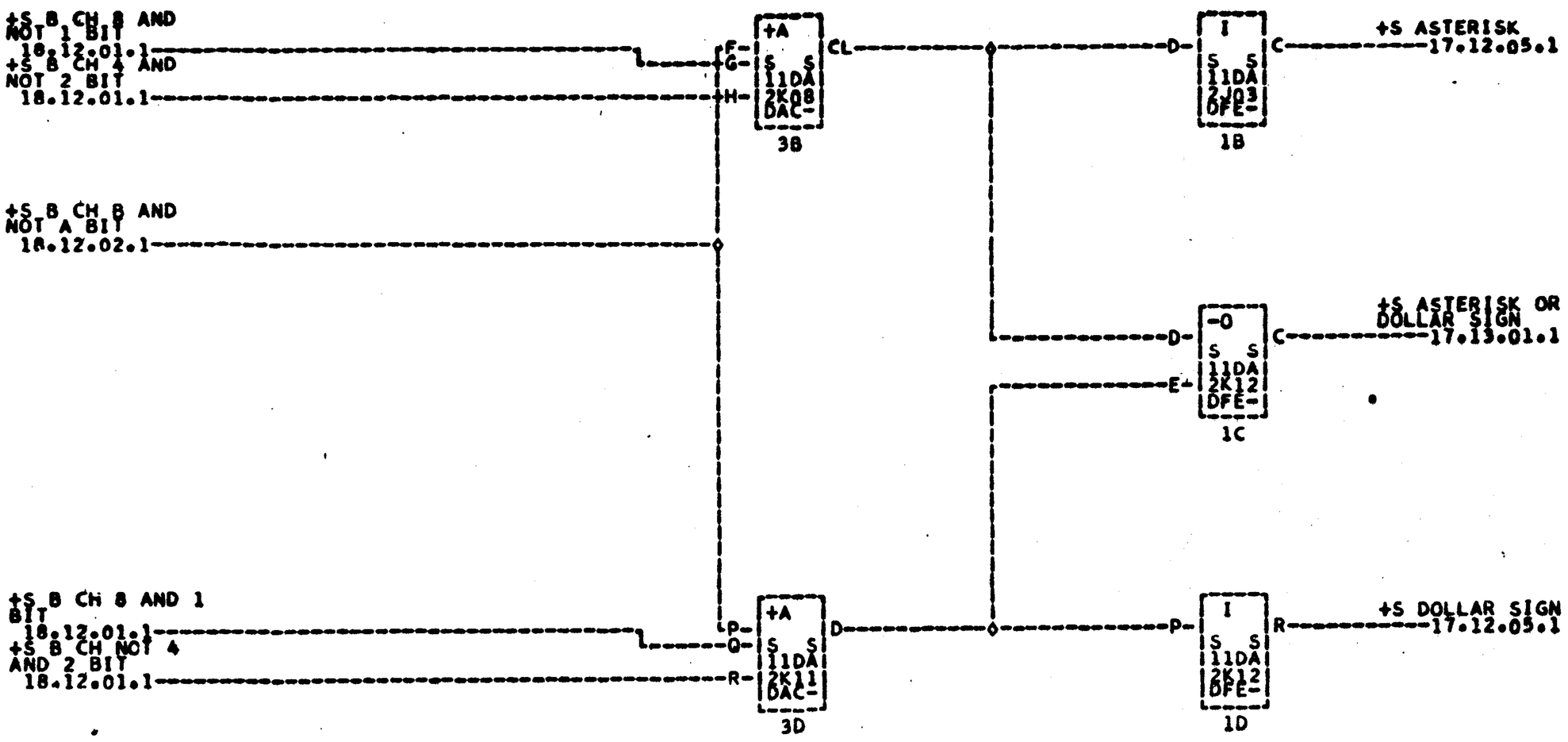
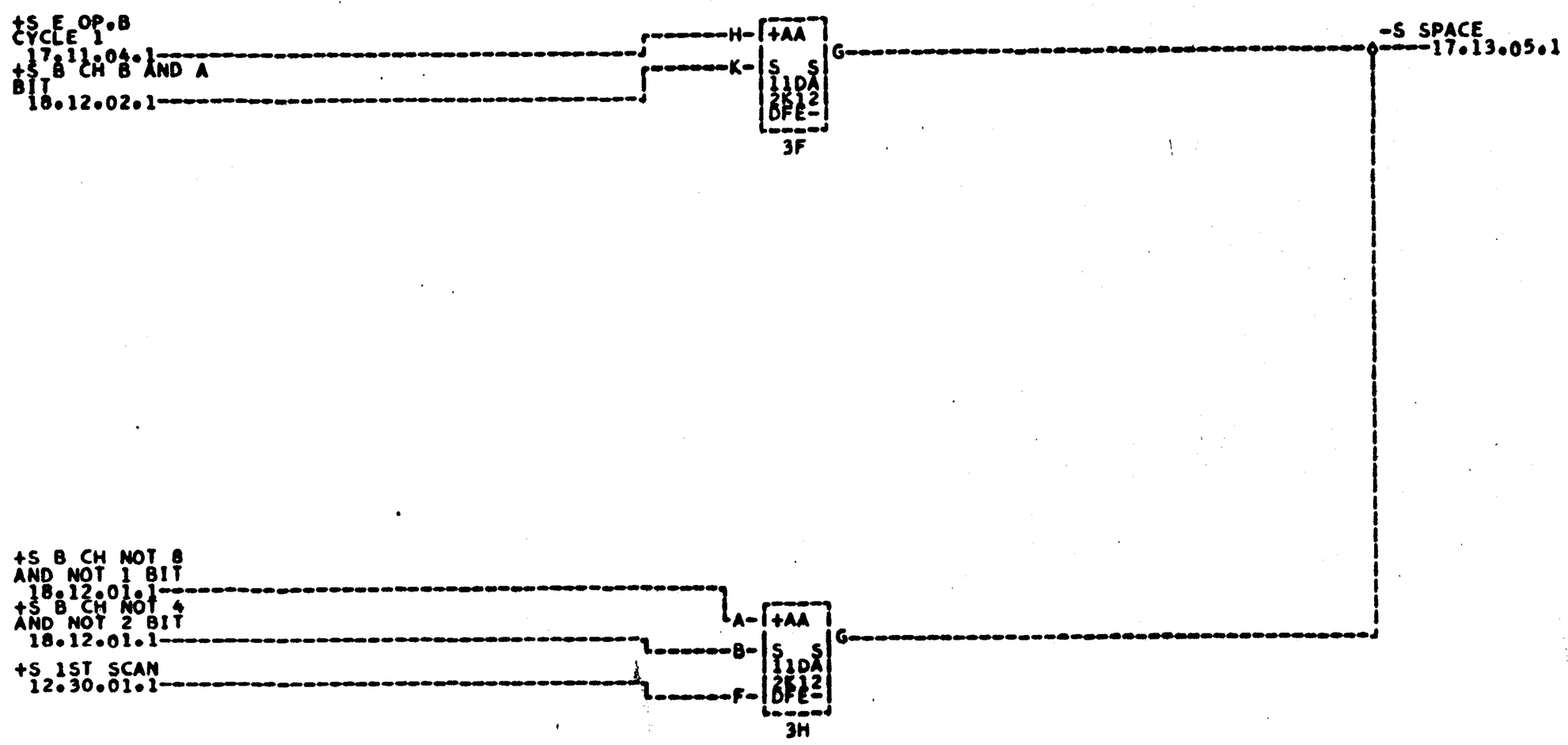


COMMENTS
SIGNAL +S BLANK COULD BEOBTAINED FROM 15.41.04.1

TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
A	00-00-00	111590C	B	06-17-61	249906						





COMMENTS

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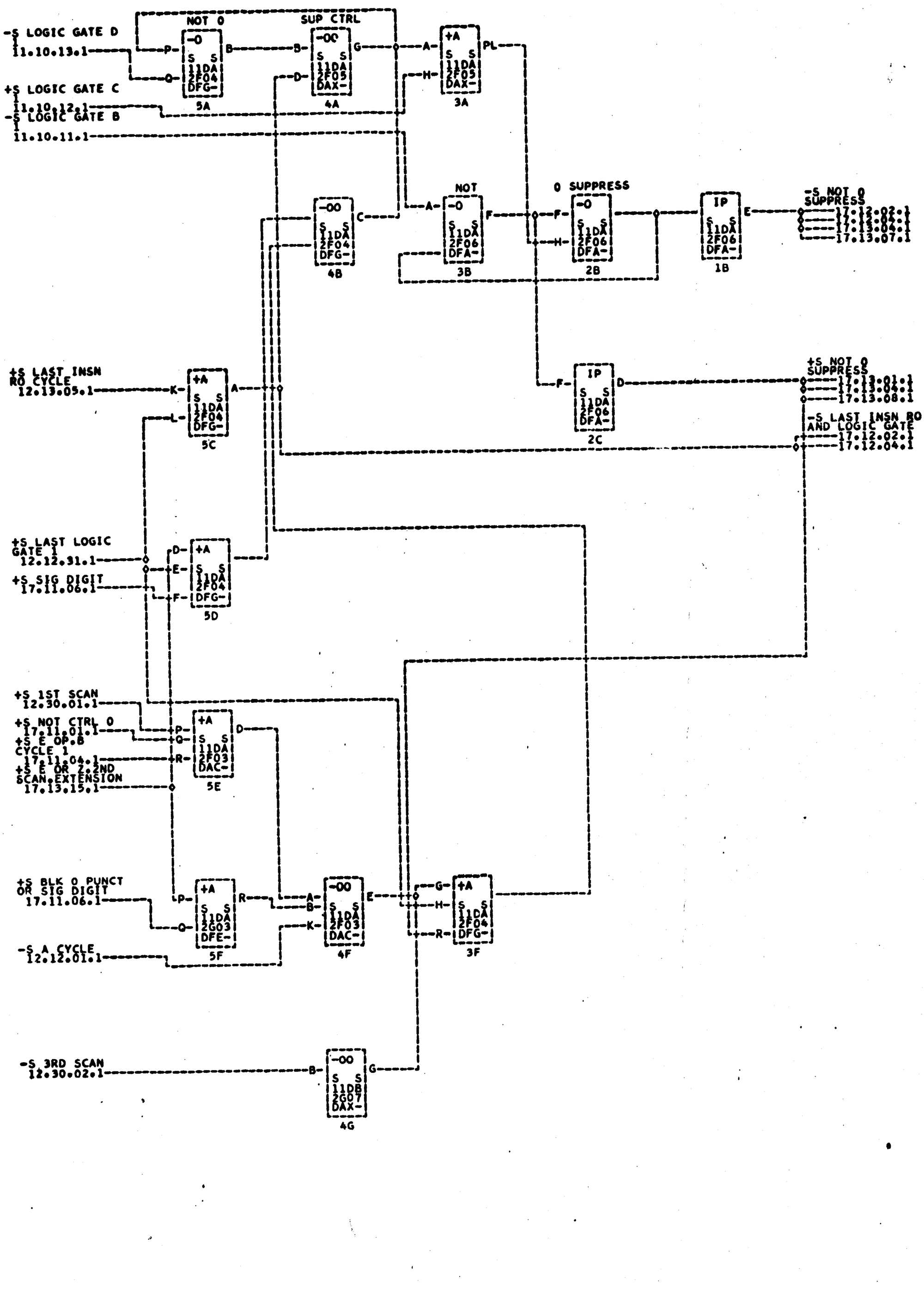

COMMENTS

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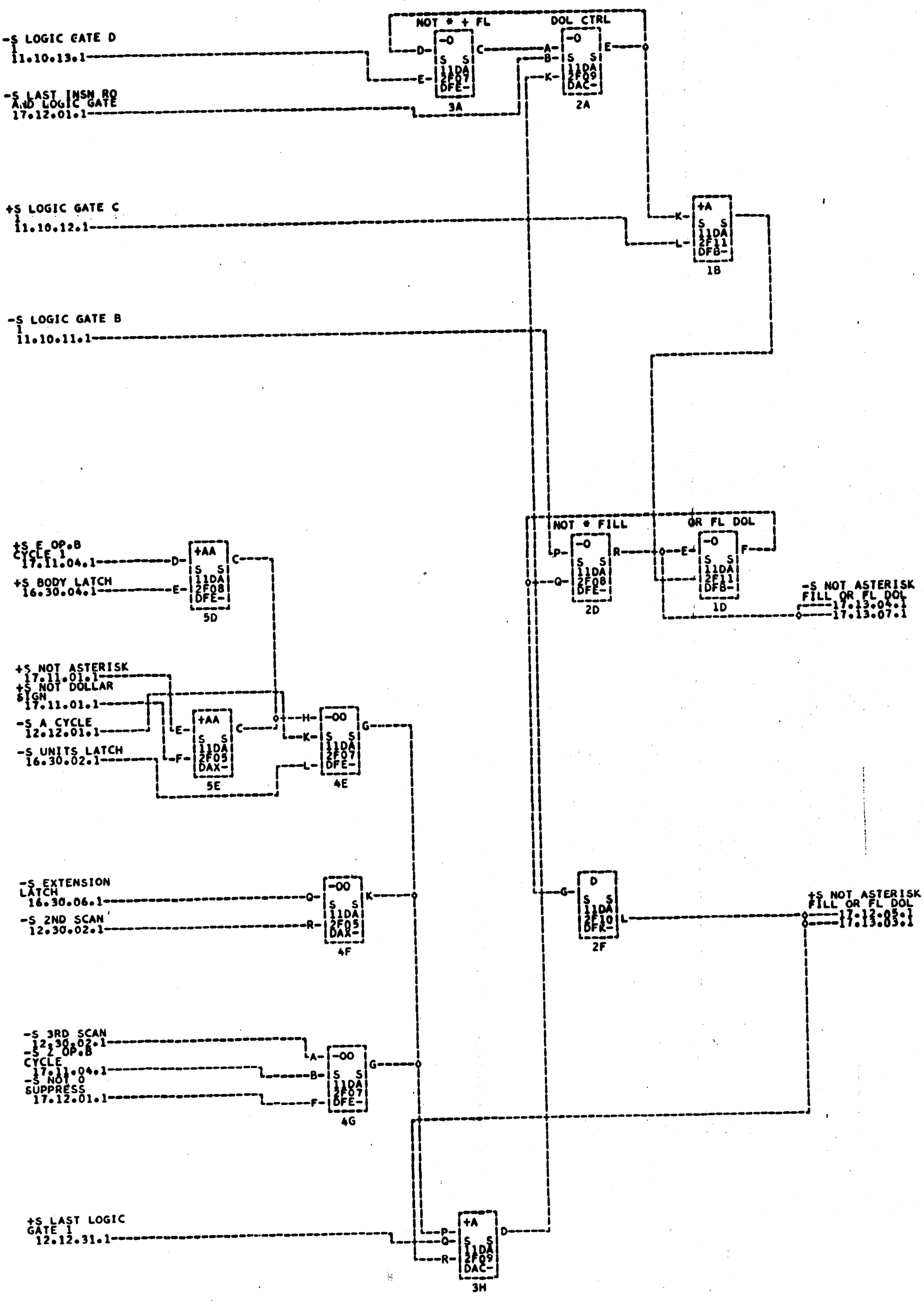
B	06-15-61	111594C
C	06-17-61	249906



COMMENTS

TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
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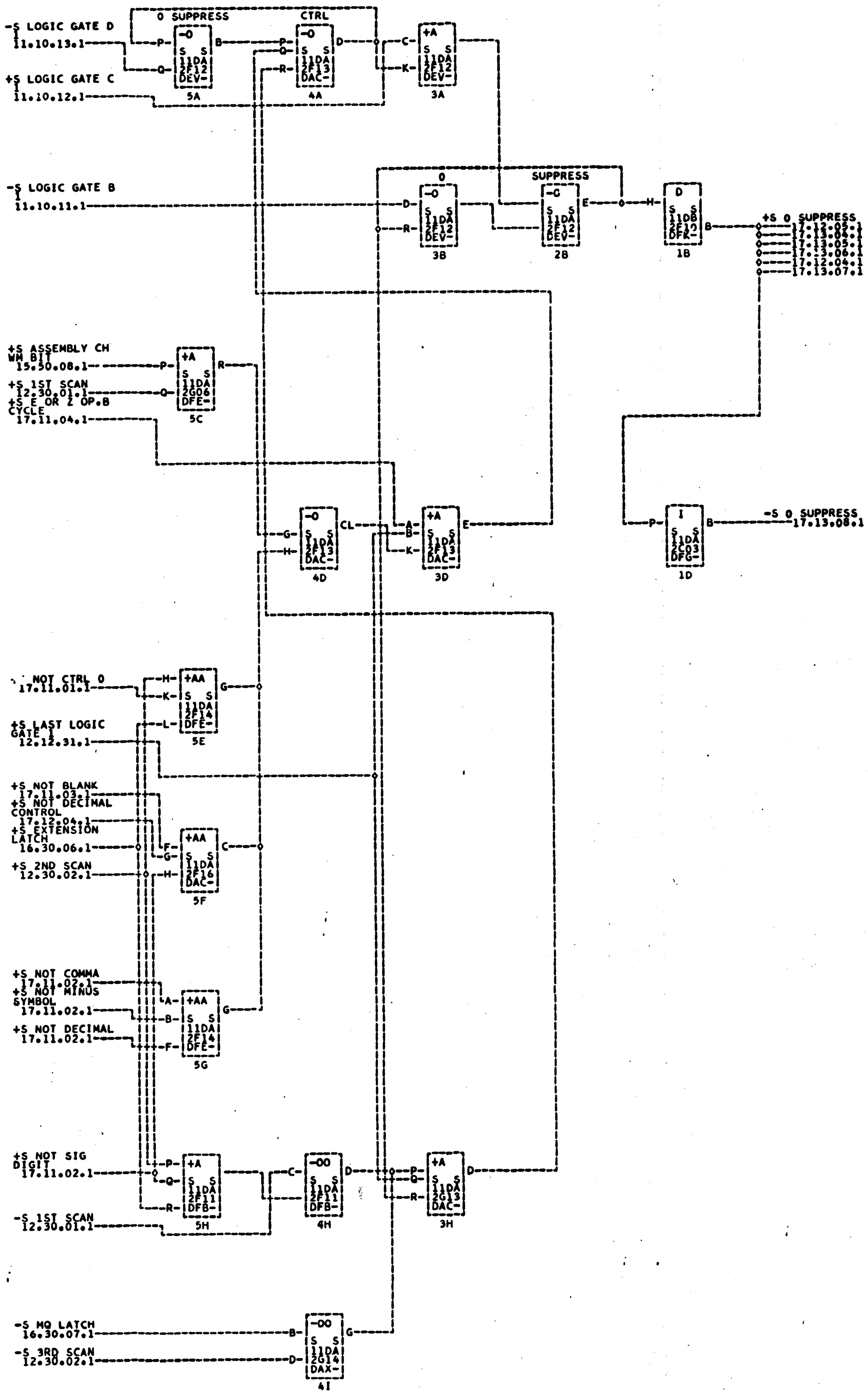
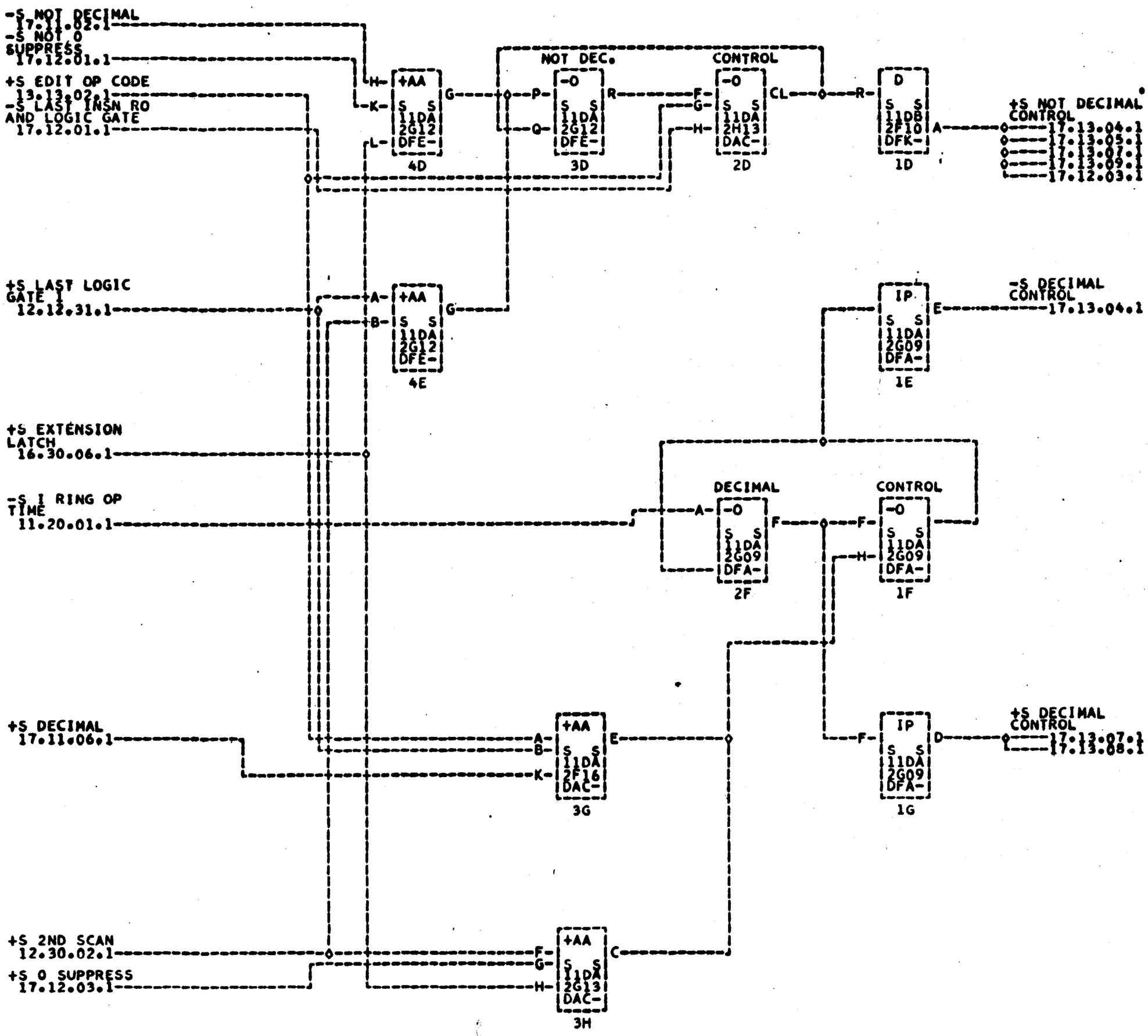


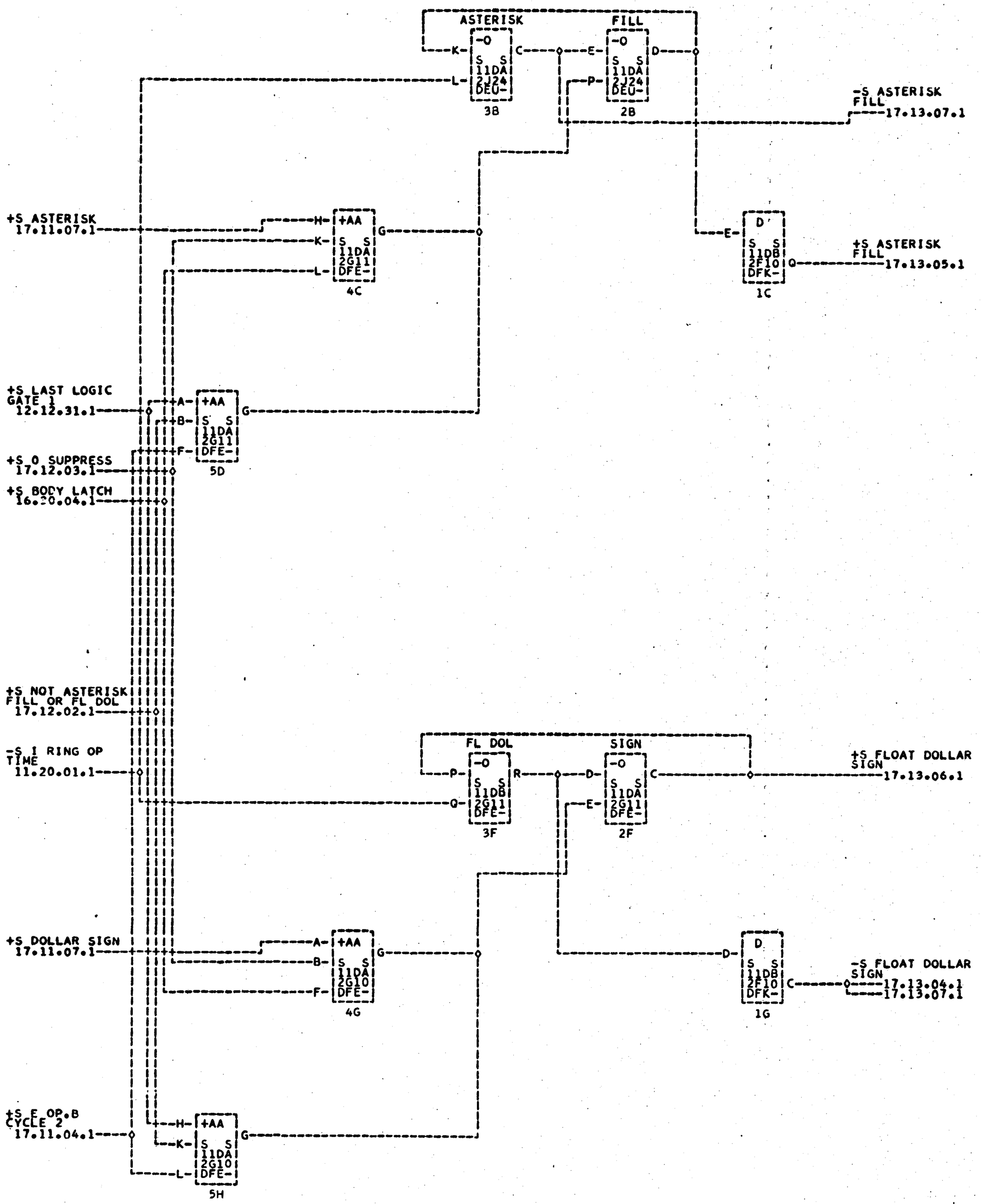
COMMENTS

TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
A	00-00-00	111590C	B	06-15-61	249906						



COMMENTS

TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
A	00-00-00	111590C	B	06-15-61	249906						



COMMENTS

TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.	TAG	DATE	E.C.NO.
A	00-00-00	109412	B	06-15-61	111594C	C	06-17-61	249906			